

October 29, 2021

Fort Ben Branch Library Project 9330 East 56th Street Lawrence, IN 46216

### **TO: ALL BIDDERS OF RECORD**

This Addendum forms a part of and modifies the Bidding Requirements, Contract Forms, Contract Conditions, and the Drawings and Specifications dated September 24, 2021, by Ratio Architects, Inc. Acknowledge receipt of the Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of Page ADD 3-1 through ADD 3-10 and attached Ratio Architects, Inc. Addendum No. 3 dated October 29, 2021, consisting of 5 pages, Specification Section 03 30 00 – Cast-In-Place Concrete, and Drawing Sheets: A-001, A-002, A-101, A-102, A-105, A-131, A-351, A-352, A-402, A-502, A-521, E001, E201, E801, M201, M401, M503, M602, M603, M701, P200, and P201.

### A. SPECIFICATION SECTION 01 12 00 MULTIPLE CONTRACT SUMMARY

1. Paragraph 3.03A Bid Categories

#### A. <u>Bid Category No. 1- General Trades</u>

| 1. Delete the following Specification Sections:  |                  |                                |
|--|------------------|--------------------------------|
| Section  | 01 51 80         | Temporary Fire Protection      |
| Section  | 01 51 60         | Temporary Sanitary Facilities  |
| Section  | 08 31 13         | Access Doors and Frames        |
| Section  | 01 57 60         | Project Signs                  |
| 2. Replace the following Specification Section:<br>Section03 30 00Cast-In-Place Concrete |                  |                                |
| 3. Add the follo   | wing Specificati | ion Sections:                  |
| Section  | 07 21 00         | Thermal Insulation             |
| Section  | 09 69 00         | Access Flooring                |
| Section  | 20 05 00         | Common Mechanical Work Results |
|  |                  |                                |

| Section | 20 05 03 | Basic Piping Materials and Methods |
|---------|----------|------------------------------------|
| Section | 20 05 13 | Motors for Mechanical Equipment    |
| Section | 20 05 19 | Thermometers and Gauges            |
| Section | 20 05 23 | General Duty Valves                |
| Section | 20 05 29 | Mechanical Hangers and Supports    |
| Section | 20 05 48 | Vibration Controls                 |
| Section | 20 05 53 | Mechanical Identification          |
| Section | 20 07 00 | Mechanical Insulation              |

- 3. Substitute the following clarifications:
  - 4. Provide temporary access roads and construction entrances as indicated on Site Logistics Plan FBL-SLP-01 dated September 24, 2021. Include installation and removal when and as directed by the Construction Manager. Provide snow fencing as indicated in Section 01 53 10. <u>The Construction Manager shall provide and remove the perimeter construction fencing and gates for the project.</u>
  - 8. Provide temporary sanitary facilities for entire project duration. <u>The</u> Construction Manager will provide temporary sanitary facilities for the project.
  - 17. Provide dumpsters and rubbish containers for the duration of the project. Bid Category Nos. 3, 4 and 6 shall provide dumpsters and rubbish containers for their own work. The Construction Manager shall provide dumpsters for the balance of the Contractors.
  - 27. Regarding Specification Section 06 10 53 Misc. Rough Carpentry; The Bid Category No. 4 Contractor is responsible for all wood blocking and sheathing required for roof installation including inside parapet wall sheathing, MEP curbs, metal roof copings, roof hatches, etc. This includes any "Densdeck" type sheathing or plywood required at the inside face and top of parapet walls. The Bid Category No. 6 Contractor is responsible for wood blocking and plywood within the Metal Stud Walls, plywood attached to metal stud walls, plywood or wood studs required at all window/storefront/curtainwall openings (including openings located within CMU/Brick construction). The Bid Category No. 1 Contractor is responsible for all other wood blocking required in the Contract Documents. including but not limited to temporary enclosures for winter conditions at all window and door openings.
  - 29. Provide plywood covered frames or reinforced plastic for window openings, overhead door openings, and hinged plywood at door openings to maintain temperatures necessary to perform the work and provide security. Provide protection against adverse weather so that the building and materials will not be damaged, and against unauthorized entry. Protection shall be provided well in advance of finishing operations to prevent penetration of dust or moisture into finished areas. The Construction Manager shall provide temporary enclosures for the project.

- 4. Add the following clarification:
  - 43. Coordinate the Access Flooring System with all other Contractors whose work passes through and beneath the Access Flooring System. Seal all penetrations created by ductwork, piping, conduit, diffusers, grilles, etc. which pass through the Access Flooring System and plenum divider. Seal gaps between Access Floor System and adjacent vertical construction.

#### D. Bid Category No. 4 – Roofing

- 1. Substitute the following clarification:
  - 3. Regarding Specification Section 06 10 53 Misc. Rough Carpentry; The Bid Category No. 4 Contractor is responsible for all wood blocking and sheathing required for roof installation including inside parapet wall sheathing, MEP curbs, metal roof copings, roof hatches, etc. This includes any "Densdeck" type sheathing or plywood required at the inside face and top of parapet walls. The Bid Category No. 6 Contractor is responsible for wood blocking and plywood within the Metal Stud Walls, plywood attached to metal stud walls, plywood or wood studs required at all window/storefront/curtainwall openings (including openings located within CMU/Brick construction). The Bid Category No. 1 Contractor is responsible for all other wood blocking required in the Contract Documents. including but not limited to temporary enclosures for winter conditions at all window and door openings.

#### E. Bid Category No. 6 - Metal Framing/Drywall/Ceilings

| 1. Add the folle | owing Specificati | ion Section:            |
|------------------|-------------------|-------------------------|
| Section          | 08 31 13          | Access Doors and Frames |

- 2. <u>Substitute the following clarification:</u>
  - 3. Regarding Specification Section 06 10 53 Misc. Rough Carpentry; The Bid Category No. 4 Contractor is responsible for all wood blocking and sheathing required for roof installation including inside parapet wall sheathing, MEP curbs, metal roof copings, roof hatches, etc. This includes any "Densdeck" type sheathing or plywood required at the inside face and top of parapet walls. The Bid Category No. 6 Contractor is responsible for wood blocking and plywood within the Metal Stud Walls, plywood attached to metal stud walls, plywood or wood studs required at all window/storefront/curtainwall openings (including openings located within CMU/Brick construction). The Bid Category No. 1 Contractor is responsible for all other wood blocking required in the Contract Documents. including but not limited to temporary enclosures for winter conditions at all window and door openings.

#### F. Bid Category No. 7 – Flooring

1. Delete the following Specification Section: Section 09 69 00 Access Flooring

### G. Bid Category No. 8 - Plumbing

| Section | 20 05 00 | Common Mechanical Work Results     |
|---------|----------|------------------------------------|
| Section | 20 05 03 | Basic Piping Materials and Methods |
| Section | 20 05 13 | Motors for Mechanical Equipment    |
| Section | 20 05 19 | Thermometers and Gauges            |
| Section | 20 05 23 | General Duty Valves                |
| Section | 20 05 29 | Mechanical Hangers and Supports    |
| Section | 20 05 48 | Vibration Controls                 |
| Section | 20 05 53 | Mechanical Identification          |
| Section | 20 07 00 | Mechanical Insulation              |
|         |          |                                    |

### **Request For Information (RFI) Responses**

All bidders are responsible for reviewing all RFI questions, their associated responses, and include the scope of work indicated within their bid as required.

| Bid<br>Category<br>No. | RFI Question  | Team Response   |
|------------------------|---|---|
| 1                      | There is a spec section for Crushed Aggregate<br>Surfacing. There is a note at the sidewalk at the<br>SW entry walk pointing to a limestone seat<br>wall. Please clarify. | Refer to L-201 and Detail A1/L704 for extent<br>of this scope of work. This "french drain" is<br>located on the north side of the limestone<br>seat wall/bench and is limited to the east-<br>west dimension of said seat wall/bench. |
| 1                      | Spec section 01 51 60, 1.02, A – Please provide clarification on "Saniprep". Is this a specific item? I cannot find where to obtain this item.                            | Temporary Sanitary Services have been removed from BC No. 1 scope of work   |
| 1                      | What is the schedule for installation of the curtainwall and storefront? Can you further define areas and time that temp protection will be needed?                       | Temporary Enclosures have been removed from BC No. 1 scope of work  |
| 1                      | There is an enlarged crosswalk element at the top of L-201. Verify this is the detail for items 32-17I. (sidenote – the numbers are shifted down)                         | This is the correct detail for Item 32-17I. The<br>numbers should be shifted "up" to align<br>with the colored thermoplastic striping<br>pattern.   |
| 1                      | Can the BP1 General Trades Contractor<br>employee the Civil Engineer of Record for Field<br>Engineering?  | Negative. Field Engineering requires an independent surveyor which was not a part of the design team.   |

| Bid<br>Category<br>No. | RFI Question  | Team Response   |
|------------------------|---|---|
| 1                      | Per Aggregate Pier System Note Item 6 – GC to<br>engage in Independent Testing Agency. Is it<br>the intent of the owner to contract with this<br>testing agency and GC to coordinate<br>installation as part of their 3rd party<br>inspections? | The CM will hire the testing agency. BC No.<br>1 Aggregate Pier Subcontractor shall<br>provide all testing equipment and labor<br>required to conduct bearing capacity load<br>testing; the testing agency shall witness the<br>test(s).  |
| 1                      | Exterior sign A-201: Please provide depth of letter and advise if these letters should illuminate.  | 1/2" depth. Non-illuminated.  |
| 1                      | BP1 – Scope Item 2 – Is there a Civil demolition drawing going to be provided?  | No.   |
| 1                      | Specification Section 01 53 20 call for tree protection. Are there specific tree's that the owner wants saved?  | Review sheet L-501; Tree Protection Notes 1<br>& 2  |
| 1                      | Specifications Section 31 14 17 Selective Site<br>Demolition – Item 1.2.A.2 & 3 – Are there<br>specific items that we are to repair and what is<br>the extent of site demolition.   | Site Clearing/Demolition work is generally<br>limited to within the Construction Fence<br>(CF) boundary indicated on Drawing L-201.<br>Refer to Section 01 12 00 Multiple Contract<br>Summary, Paragraph A Bid Category No. 1,<br>Clarification No. 39 for additional site<br>demolition work that is required to be<br>included by BC No. 1.   |
| 1                      | There are a series of 50 gal drums, who's responsibility is it to dispose of these and what is in them?   | These are the excess auger cuttings from<br>the geotechnical investigation and should<br>have been labeled accordingly.<br>At the time of the work it had not yet been<br>confirmed that the cuttings were clean and<br>were containerized as a precaution. It has<br>since been determined that they are clean<br>and can be disposed of. BC No 1 Contractor<br>shall properly dispose of these items. |
| 1                      | Specification Section 057500 – Decorative<br>Formed Metal – Could not specifically find this<br>spec section ID'd on the drawings, please ID<br>where this specification section applies<br>specifically on the drawings.                       | See Detail F4/A-351, F6/A-351, C6/A-353<br>and E6/A-353. In general, this work is<br>located above the curtainwall and at the<br>cantilevered roof edge.  |

| Bid<br>Category<br>No. | RFI Question  | Team Response   |
|------------------------|---|---|
| 1                      | Spec 057500 – 1.2.B – Related Requirements –<br>Specification sections 076200 & 077100 are<br>not specific specs related to BP1 Scope of<br>Work. Please Advise.  | These are related sections of adjacent finish<br>components and not necessarily included<br>within BC No. 1. Coordinate all work with<br>adjacent finishes provided by other Bid<br>Category Contractors.   |
| 1                      | Please confirm Footing Depths listed for<br>WF30T and WF42T are correct on Wall Footing<br>Schedule.  | Yes, the 1'-2" thickness shown in the<br>schedule is correct. "T" represents top<br>reinforcing and does not necessarily<br>designate a thicker footing.  |
| 1                      | Unable to find Vapor Barrier Spec for Slabs.<br>Please advise.  | Please see the revised 03 30 00 specification<br>section in Addendum 3 for Section 2.11 -<br>Waterstops and Section 2.12 - Vapor<br>Retarders.  |
| 1                      | The Specification Section 126200 Furnishings &<br>Upholstery as well as Furniture Drawings A-161<br>lacks many necessary details in order to<br>provide accurate quote to furnish Building.<br>Please advise on how to go about pricing this<br>work? | The majority of furniture shown on A-161 is<br>outside this scope of work. The upholstery<br>that is to be included within the bid is<br>indicated as TEX-01 and TEX-02 per<br>elevations D1/A-502. This references the<br>banquette seat and back fabric along<br>column line 11.3. The finish schedule on<br>sheet A-002 indicates the allowance to<br>price. Architect to select final fabric within<br>approved manufacturer's lines indicated<br>within specification that fall within the price<br>allowance structure. |
| 1                      | Section 062015, 1.2, A, 1 Exterior thermally<br>modified wood used at benches. I cannot find<br>where the thermally modified wood is used.<br>Please clarify.   | This product is required at the exterior bench seat wall; see B4/L-704 and D4/L-704.  |
| 1                      | Detail C3/A-352 shows a plenum divider<br>system below the access floor. How is this<br>constructed, where does it occur, does it divide<br>the zones shown on the HVAC drawings, and<br>which bid package is responsible for this work?              | The plenum divider is an accessory that is to<br>be provided by the Access Flooring<br>contractor. It's essentially a bent metal<br>sheet (L-shaped) that's caulked at the edges<br>and attached to the slab/side of pedestals.<br>The intent of this is to help pressurize the<br>access floor system south of column line<br>D.9. This plenum divider occurs at the two<br>locations where the access floor system<br>extends north of column line D.9.   |

| Bid<br>Category<br>No. | RFI Question  | Team Response   |
|------------------------|---|---|
| 1                      | Details on Sheet A322 Show the stud cavity<br>painted flat black, what is the extent of this<br>work? Which bid category is responsible for<br>doing this painting?   | The extent of the flat black paint is in the visible area with the stud cavities behind the return grille RG-3 between column lines 9 & 10.   |
|                        |   | BC No. 1 Contractor is responsible for painting this in the field.  |
| 1                      | Which contract is responsible for sealing the concrete opening in the mechanical room with sheet metal like is shown on Detail A1/A-322?  | Access Flooring Contractor shall seal the gap<br>between the concrete curb and the<br>sheetmetal ductwork.  |
| 1                      | We did not find soil mixes for this project.<br>Please provide.   | To be answered in Addendum No. 4 on 11/1/21   |
| 1                      | Several items in the landscape schedule are<br>listed as in groups of 1-3 or 1-5. We need a<br>specific count of plants needed in these areas.<br>Highlighted below in yellow are a couple of<br>examples but not a complete list.                | To be answered in Addendum No. 4 on 11/1/21   |
| 1 and 6                | BP1 – General Trades – Specification Section<br>083113 – Access Doors & Frames – Is it your<br>intent that this bid package acquire all access<br>doors for the MEP trades? If so, can a base line<br>quantity be established for the MEP Trades? | Access Doors and Frames reassigned to BC<br>No. 6 in Addendum No. 3; required<br>quantities are indicated on the<br>Architectural, Mechanical and Plumbing<br>drawings.                                       |
| 1 and 6                | Detail A3/A-503 shows painted plywood<br>behind wall panels. The plywood falls under<br>BC-06. Will the paint fall under BC-01?   | BC No. 1 is responsible for painting these plywood sheets.  |
| 1 and 6                | Sheet A-524 shows details for the display case.<br>Please specify which layers of wood BC-01 and<br>BC-06 are responsible for.  | BC No. 1 is responsible for all plywood<br>layers and blocking associated with this<br>display case.  |
| 1 and 6                | Sheet A-521 shows details for the banquette cavity at window. Please specify which layers of wood BC-01 and BC-06 are responsible for.  | BC No. 1 is responsible for all plywood<br>layers and blocking associated with this<br>banquette and cavity wall.   |
| 1 and 6                | Which Bid Category is responsible for the rigid<br>insulation and plywood on the face of the<br>sheathing behind the metal panels? How is this<br>installed?  | BC No. 6 Contractor is responsible for the<br>rigid insulation and plywood sheathing<br>behind the Metal Panel Systems. Intent is<br>for the plywood to be attached to studs<br>through the rigid insulation. |
| 1 and 10               | Note 5 – Is it the responsibility of the GC to coordinate final locations of the fire alarm/data voice locations?   | BC No. 10 is responsible for coordination of devices provided under their scope of work.  |

| Bid<br>Category<br>No. | RFI Question  | Team Response  |
|------------------------|---|--|
| 1, 3, 6                | Please confirm that all rigid insulation falls<br>under BC-03 as Thermal insulation falls under<br>multiple categories.   | Rigid insulation is assigned to BC No. 1 at<br>foundation walls via Clarification Note No.<br>35 in Section 01 12 00; BC No. 3 and BC No.<br>6 clarifications are located within these RFI<br>Responses.   |
| 1,6,9                  | Details on A322 show the stud cavity being<br>lined with sheet metal. Which contract is<br>responsible for this work?   | BC No. 9 Contractor is responsible for<br>constructing and sealing the return air<br>plenum between the studs. BC No. 1<br>Contractor is responsible for painting this<br>plenum.  |
| 2 and 6                | Who furnishes and installs the Galvanized<br>3x3x1/4" angle on the face of the sheathing at<br>the parapet shown in detail C6/A351?                                   | Addendum No. 3 drawings will be revised to<br>remove this angle and replace with (2) 2x4<br>studs turned sideways. BC No. 6 is<br>responsible for these 2x4 studs.   |
| 3                      | Which Bid Category is responsible for the rigid<br>insulation on the face of the gyp sheathing<br>behind brick or masonry? How is this rigid<br>insulation installed? | BC No. 3 Contractor is responsible for cavity wall insulation located behind CMU or brick veneer. Attachment is a means and methods issue.   |
| 4 and 6                | In detail E6/A353 is all the plywood on the metal stud by the roofer?   | At this condition, BC No. 4 Contractor is<br>responsible for insulation and plywood<br>sheathing required to the top of their<br>parapet roofing system PLUS another 1'-0";<br>BC No. 6 is responsible for all other<br>insulation and sheathing located behind<br>Metal Panels.                               |
| 4 and 6                | Which Bid category is responsible for the spray<br>foam insulation in the roof deck, like shown in<br>detail F4/A351?   | BC No. 4 Contractor is responsible for spray<br>foam insulation required above the roof<br>deck; Bid Category No. 6 Contractor is<br>responsible for spray foam insulation<br>required below the roof deck. Refer to<br>Section 072100 2.7-Accessories for the<br>spray foam insulation product specification. |
| 4 and 6                | Drawings show something in the Roof Flutes. Is<br>this to be flute filler or spray foam insulation?   | BC No. 4 Contractor is responsible for spray<br>foam insulation required above the roof<br>deck; Bid Category No. 6 Contractor is<br>responsible for spray foam insulation<br>required below the roof deck. Refer to<br>Section 072100 2.7 Accessories for the spray<br>foam insulation product specification. |

| Bid<br>Category<br>No. | RFI Question  | Team Response  |
|------------------------|---|--|
| 6                      | For Alternate No. 4, the specs mention a length<br>of 8 feet for the wood panels. Are 10-foot<br>panels acceptable to use to prevent waste, and<br>provide cleaner cuts for the wood ceiling<br>clouds? | 10-foot panels are acceptable.   |
| 6                      | Is wall type F6N designed to be load bearing, or is it just a part of 054000 scope? 2.  | Wall type F6N is not intended to be self-<br>supporting but the walls do have some<br>structural component. For example, the<br>wall along column line D.9 includes (2) two<br>long spans – one between CL 6 and 7.5<br>(between 7 and 8) as well as between CL's 9<br>and 11. Reference detail A1/A-322 and<br>C3/A-35  |
| 6                      | A3/A-503 calls for "Painted Plywood",<br>however, C6/A-521 calls for "Painted 3/4"<br>Particle Board Paneling", Please clarify.   | Addendum 3 drawings will be revised to read ¾" birch plywood, sanded A-face, painted.  |
| 7                      | For alternate 3, only 1 elevation is provided for<br>T-2 and T-4. Please clarify if the alternate<br>affects any other walls in these restrooms   | The alternate affects all walls within the restrooms noted.  |
| 9                      | Plan M201 note 10 States 5 instances, only 4 are shown.   | There are two (2) locations on Column Line<br>E between Column Lines 9 and 10; only one<br>of these is marked with Note 10. This is<br>clearly a large RA plenum as indicated on<br>A1/A502. Bidders are required to review<br>and include all scope of work items<br>associated with their Bid Category as<br>indicated on ALL drawings included in the<br>bid documents. |
| 9                      | Plan M401 has some of the return hatched<br>(indicating double wall) and no supply. Specs<br>state all of AHU -1 return and supply is double<br>wall. Which is correct?                                 | The supply and return ductwork to AHU-1 is to be double wall   |
| 10                     | Is there rack space available for the paging equipment in IT room 115?  | Yes, there is space within the<br>telecommunications rack for paging<br>equipment. There is also wall space<br>mounting to the plywood backboard.  |

| Bid<br>Category<br>No. | RFI Question   | Team Response  |
|------------------------|--|--|
| 10                     | There is an add alternate for control of the<br>electric fireplace in adult collection. Notes 55 &<br>56 on drawing E301. I do not see an alternate<br>in the specs that address this. What alternate #<br>should we use for this? | This work is to be included in the Base Bid.<br>Plan note will be removed to correct this<br>issue.  |
| 10                     | Mechanical plans list RG-3. There is no RG-3 listed on the schedule.   | RG-3 will be noted on sheet A-502.<br>Mechanical drawings will reference the<br>finished grille to the Architectural drawings.<br>See Addendum 3 drawings.   |
| ALL                    | CMID Drawing 1 of 2. Can any portion of Lot 2 be used for a laydown/trailer area?  | Negative. That parcel is owned by a private developer.   |
|                        | Can we bid multiple Bid Categories?<br>Can we submit combination bids?   | Yes. See Section 00 10 00 Instructions to<br>Bidders Paragraph 1.19 A and B.<br>Individual Bids must be submitted (in  |
| ALL                    |  | <ul> <li>separate envelopes) for each Bid Category<br/>AND Combined Bid.</li> <li>Example for Bidding BC Nos. 8 and 9:<br/>1. Submit Sealed Bid for BC No. 8</li> <li>2. Submit Sealed Bid for BC No. 9</li> <li>3. Submit Sealed Bid for COMBO 8 &amp; 9</li> <li>4. All three (3) sealed bids can be contained within a single envelope</li> </ul> |

## **RATIO Design**

#### **ADDENDUM NO. 3**

DATE: 10 / 29 / 2021

PROJECT: FORT BENJAMIN HARRISON BRANCH INDIANAPOLIS PUBLIC LIBRARY LAWRENCE, INDIANA

RATIO PROJECT NUMBER: 18005.000

#### **OWNER:**

INDIANAPOLIS PUBLIC LIBRARY INDIANAPOLIS, IN 2450 North Meridian Street Indianapolis, IN 46208 (317) – 275-4100

#### ARCHITECT / LANDSCAPE ARCHITECT:

RATIO ARCHITECTS, INC. 101 South Pennsylvania Street Indianapolis, Indiana 46204-3684 Phone: (317) 633-4040 Fax: (317) 633-4153

#### **STRUCTURAL ENGINEER:**

**Lynch, Harrison, & Brumleve, Inc** 550 Virginia Avenue Indianapolis, IN 46203 Phone: (317)-423-1550

#### **MECHANICAL/ELECTRICAL ENGINEER:**

Loftus Engineering, Inc. 201 South Capitol Avenue, Suite 310 Indianapolis, IN 46225 Phone: (317) 352-5822

#### TECHNOLOGY DESIGN:

**Design 27** 1650 East 49<sup>th</sup> Street Indianapolis, IN 46205 Phone: (317) 536-8000

#### **CIVIL ENGINEER:**

**The Schneider Corporation** Historic Fort Harrison 530 E. Ohio Street, Suite G Indianapolis, IN 46204 Phone: (317) 655-7777

10/29/2021-ACS

INDIANAPOLIS PUBLIC LIBRARY FORT BENJAMIN HARRISON BRANCH 100% CONSTRUCTION SET This Addendum is issued in accordance with the provisions of Contract Documents and becomes a part of the Contract Documents as provided therein. The information contained herein modifies the original Bidding Documents dated October 4, 2021 and all prior Addenda as applicable. Requirements of the original Bidding Documents and previous Addenda remain in effect except as modified by this Addendum. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

#### PART 1 - GENERAL CLARIFICATIONS (BIDDER QUESTIONS & RESPONSE)

1. Response to Landscape Architecture questions will be distributed in Addendum 04 on Monday, 11/1/2021.

#### PART 2 – PROJECT MANUAL CHANGES

- 1. SECTION 033000 CAST IN PLACE CONCRETE a. See revised section.
  - b. Add the following:
    - 1. 2.11 Waterstops
    - 2. 2.12 Vapor Retarders
- 2. SECTION 071326 SELF-ADHERING SHEET WATERPROOFING
   a. Add to Paragraph 2.1.A.1 to read: "n. Tremco"
- 3. SECTION 072726 FLUID APPLIED MEMBRANE AIR BARRIERS
  - a. Add to Paragraph 2.3.A.1.a to read: "3. Tremco"

#### 4. SECTION 263323 – SMALL INVERTER SYSTEMS

- a. See revised section.
- b. Add Paragraph 2.1.B.4 to read: "4. Myers Emergency Power Systems."

#### PART 3 – DRAWING SHEET CHANGES

- 1. SHEET A-001 GENERAL NOTES, SYMBOLS, AND STANDARD MOUNTING HEIGHTS
  - a. See revised sheet.
  - b. Revise dimension for centerline of watercloset to be 16" 18" from sidewalk to centerline.

# 2. SHEET A-002 – INT. PARTITION TYPES, STAND. PARTITION DETAILS, FINISH SCHEDULE

- a. See revised sheet.
- b. Revise dimension for height of electrical devices as required by the plan reviewer to illustrate minimum and maximum.

#### 3. SHEET A-101 – FIRST FLOOR PLAN

- a. See revised sheet.
- b. Add plan note to identify fixed banquette furniture and linear bar grille as required by plan

10/29/2021-ACS

#### INDIANAPOLIS PUBLIC LIBRARY FORT BENJAMIN HARRISON BRANCH 100% CONSTRUCTION SET

## **RATIO Design**

reviewer.

#### 4. SHEET A-102 – CLERESTORY PLAN – LOWER ROOF PLAN

- a. See revised sheet.
- b. Add roof drain with overflow detail F7 and section detail view mark on plan to reference roof drain detail.

#### 5. SHEET A-105 – UPPER ROOF PLAN

- a. See revised sheet.
- b. Add section detail view mark for roof drain with overflow detail.

#### 6. SHEET A-131 - REFLECTED CEILING PLAN

- a. See revised sheet.
- b. Clarify location of ceiling access panels. Coordinate final location of VAV box and access door.
- c. Add ceiling access panel to RCP Legend, additional notes.
- d. Add clarifying notes for mechanical unit in ceiling of North Vestibule.

#### 7. SHEET A-351 – EXTERIOR DETAILS

- a. See revised sheet.
- b. Updated detail C6 to remove L3x3 angle at top of stud wall and replace with (2) 2x4 blocking continuous below top plate.

#### 8. SHEET A-352 – EXTERIOR DETAILS

- a. See revised sheet.
- b. Updated detail E1 to remove L3x3 angle at top of stud wall and replace with (2) 2x4 blocking continuous below top plate.

#### 9. SHEET A-402 - ENLARGED PLANS - RESTROOMS

- a. See revised sheet.
- b. Revise dimension for centerline of watercloset to be 16" 18" from sidewalk to centerline.

#### **10. SHEET A-502 – INTERIOR ELEVATIONS**

- a. See revised sheet.
- b. Revise note in detail A1 as indicated.

#### 11. SHEET A-521 - INTERIOR DETAILS

- a. See revised sheet.
- b. Revise detail C6.

#### 12. SHEET M201 – FIRST FLOOR MECHANICAL PLAN

- a. See revised sheet.
- b. Revise Plan Note 10 as indicated on attached Drawing.

#### 13. SHEET M401 - ENLARGED MECHANICAL ROOM PLAN

a. See revised sheet.

10/29/2021-ACS

#### INDIANAPOLIS PUBLIC LIBRARY FORT BENJAMIN HARRISON BRANCH 100% CONSTRUCTION SET

## **RATIO Design**

- b. Detail callout of "In-Line Horizontal Fan Detail" and shifted RF-1 upstream allowing for straight ductwork before transition to and from fan as indicated on attached Drawing.
- c. Clarification: The supply and return ductwork to AHU-1 is to be double wall; reference Specification Section 233113 for further information.
- d. Changed supply ductwork to 30"x42" for AHU-1 as indicated on attached Drawing.

#### 14. SHEET M503 – MECHANICAL DETAILS

- a. See revised sheet.
- b. Revise Detail 1 "Multi-Condensing Unit Refrigerant Piping Diagram" as indicated on attached Drawing.

#### 15. SHEET M602 – HVAC INSTRUMENTATION AND CONTROL SCHEMATICS

- a. See revised sheet.
- b. Revise "AHU-1 Control Schematic" section F as indicated on attached Drawing.

#### 16. SHEET M603 - HVAC INSTRUMENTATION AND CONTROL SCHEMATICS

- a. See revised sheet.
- b. Revise "AHU-2 Control Schematic" section E as indicated on attached Drawing.

#### 17. SHEET M701 – MECHANICAL SCHEDULES

- a. See revised sheet.
- b. Revise "Hot Water Cabinet Heater/Propeller Unit Heater Schedule" as indicated on attached Drawing.
- c. Revise "Grille/Register and Diffuser Schedule" for RG-3, SG-2, and SG-3 as indicated on attached Drawing.
- d. Revise "Round Floor Diffusers" type as indicated on attached Drawing.

#### 18. SHEET P200 - UNDERFLOOR PLUMBING PLAN

- a. See revised sheet.
- b. Add trap primers for floor drains as indicated on attached Drawing.

#### 19. SHEET P201 – FIRST FLOOR PLUMBING PLAN

- a. See revised sheet.
- b. Revise sheet to include shut off valve before trap primer as indicated on attached Drawing.

#### 20. SHEET E001 - ELECTRICAL SYMBOLS AND ABBREVIATIONS

- a. See revised sheet.
- b. Updated ceiling exit signs on Electrical Symbol Legend as indicated on attached Drawing.

#### 21. SHEET E201 - FIRST FLOOR LIGHTING PLAN

- a. See revised sheet.
- b. Updated sheet to include additional exit signs as indicated on attached Drawing.

#### 22. SHEET E301 - FIRST FLOOR POWER PLAN

- a. See revised sheet.
- b. Under Plan Note #55: Delete words: "ADD ALTERNATE BID" at beginning of plan note.

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Work indicated is part of Base Bid.

c. Under Plan Note #56: Delete words: "ADD ALTERNATE BID" at beginning of plan note. Work indicated is part of Base Bid.

#### 23. SHEET E801 – LUMINAIRE SCHEDULE

- a. See revised sheet.
- b. Updated lumen and wattages and manufacturers on the Luminaire (Light Fixture) Schedule as indicated on attached Drawing.

#### PART 4 – ATTACHMENTS

- 1. SECTION 033000 CAST-IN-PLACE CONCRETE
- 2. SHEET A-001 GENERAL NOTES, SYMBOLS AND ABBREVIATIONS
- 3. SHEET A-002 INT. PARTITION TYPES, STAND. PARTITION DETAILS, FINISH SCHEDULE
- 4. SHEET A-101 FIRST FLOOR PLAN
- 5. SHEET A-102 CLERESTORY PLAN LOWER ROOF PLAN
- 6. SHEET A-105 UPPER ROOF PLAN
- 7. SHEET A-131 FIRST FLOOR REFLECTED CEILING PLAN
- 8. SHEET A-351 EXTERIOR DETAILS
- 9. SHEET A-352 EXTERIOR DETAILS
- 10. SHEET A-402 ENLARGED PLANS RESTROOMS
- 11. SHEET A-502 INTERIOR ELEVATIONS
- 12. SHEET A-521 INTERIOR DETAILS
- 13. SHEET M201 FIRST FLOOR MECHANICAL PLAN
- 14. SHEET M401 ENLARGED MECHANICAL ROOM PLAN
- 15. SHEET M503 MECHANICAL DETAILS
- 16. SHEET M602 HVAC INSTRUMENTATION AND CONTROL SCHEMATICS
- 17. SHEET M603 HVAC INSTRUMENTATION AND CONTROL SCHEMATICS
- 18. SHEET M701 MECHANICAL SCHEDULES
- 19. SHEET P200 UNDERFLOOR PLUMBING PLAN
- 20. SHEET P201 FIRST FLOOR PLUMBING PLAN
- 21. SHEET E001 ELECTRICAL SYMBOLS AND ABBREVIATIONS
- 22. SHEET E201 FIRST FLOOR LIGHTING PLAN
- 23. SHEET E801 LUMINAIRE SCHEDULE

#### END OF ADDENDUM 03

#### SECTION 033000 – CAST-IN-PLACE CONCRETE

#### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.
- 1.2 SUMMARY
  - A. Section includes cast-in-place concrete, including formwork, reinforcement, concrete materials, mixture design, placement procedures, and finishes.
- 1.3 ACTION SUBMITTALS
  - A. Product Data: For each type of product indicated.
  - B. Design Mixtures: For each concrete mixture.
  - C. Steel Reinforcement Shop Drawings: Placing drawings that detail fabrication, bending, and placement.
  - D. Sustainable Design Submittals:
    - 1. Product Data: For recycled content, indicating postconsumer and preconsumer recycled content and cost.
    - 2. Environmental Product Declaration (EPD): For each product.

#### 1.4 INFORMATIONAL SUBMITTALS

- A. Material certificates.
- B. Material test reports.

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#### 1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: A firm experienced in manufacturing ready-mixed concrete products and that complies with ASTM C 94 requirements for production facilities and equipment.
  - 1. Manufacturer certified according to NRMCA's "Certification of Ready Mixed Concrete Production Facilities."
- B. Testing Agency Qualifications: An independent agency qualified according to ASTM C 1077 and ASTM E 329 for testing indicated.
- C. ACI Publications: Comply with the following unless modified by requirements in the Contract Documents:
  - 1. ACI 301, "Specifications for Structural Concrete," Sections 1 through 5.
  - 2. ACI 117, "Specifications for Tolerances for Concrete Construction and Materials."
- D. Preinstallation Conference: Conduct conference at Project site, at least two weeks prior to concrete placement.
  - 1. Before submitting design mixtures, review concrete design mixture and examine procedures for ensuring quality of concrete materials. Require representatives of each entity directly concerned with cast-in-place concrete to attend, including the following:
    - a. Contractor's superintendent.
    - b. Independent testing agency responsible for concrete design mixtures.
    - c. Ready-mix concrete manufacturer.
    - d. Concrete subcontractor.
    - e. Finish flooring subcontractor.
  - 2. Review testing and inspecting agency procedures for field quality control, concrete finishes and finishing, cold- and hot-weather concreting procedures, curing procedures, construction contraction and isolation joints, and joint-filler strips, forms and form removal limitations, vapor-retarder installation, anchor rod and anchorage device installation tolerances, steel reinforcement installation, floor and slab flatness and levelness measurement, concrete repair procedures, and concrete protection.

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#### PART 2 - PRODUCTS

#### 2.1 FORM-FACING MATERIALS

- A. Smooth-Formed Finished Concrete: Form-facing panels that will provide continuous, true, and smooth concrete surfaces. Furnish in largest practicable sizes to minimize number of joints.
- B. Rough-Formed Finished Concrete: Plywood, lumber, metal, or another approved material. Provide lumber dressed on at least two edges and one side for tight fit.
- 2.2 STEEL REINFORCEMENT
  - A. Reinforcing Bars: ASTM A 615, Grade 60, deformed.
  - B. Plain-Steel Welded Wire Reinforcement: ASTM A 185 plain, fabricated from as-drawn steel wire into flat sheets.
  - C. Bar Supports: Bolsters, chairs, spacers, and other devices for spacing, supporting, and fastening reinforcing bars and welded wire reinforcement in place. Manufacture bar supports from steel wire, plastic, or precast concrete according to CRSI's "Manual of Standard Practice.

#### 2.3 CONCRETE MATERIALS

- A. Cementitious Material: Use the following cementitious materials, of the same type, brand, and source, throughout Project:
  - Portland Cement: ASTM C 150, Type I, gray. Supplement with the following:
     a. Fly Ash: ASTM C 618, Class C.
  - 2. Fine Aggregate: Free of materials with deleterious reactivity to alkali in cement.
- B. Water: ASTM C 94 and potable.
- 2.4 ADMIXTURES
  - A. Air-Entraining Admixture: ASTM C 260.
  - B. Chemical Admixtures: Provide admixtures certified by manufacturer to be compatible with other admixtures and that will not contribute water-soluble chloride ions exceeding

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those permitted in hardened concrete. Do not use calcium chloride or admixtures containing calcium chloride.

- 1. Water-Reducing Admixture: ASTM C 494, Type A.
- 2. High-Range, Water-Reducing Admixture: ASTM C 494, Type F.
- 3. Plasticizing and Retarding Admixture: ASTM C 1017 Type II.

#### 2.5 FIBER REINFORCEMENT

A. Synthetic Micro-Fiber: fibrillated polypropylene micro-fibers engineered and designed for use in concrete, complying with ASTM C 1116, Type III. Do not use fiber reinforcing in slabs scheduled to receive polished concrete finish.

#### 2.6 CURING MATERIALS

- A. Evaporation Retarder: Waterborne, monomolecular film forming, manufactured for application to fresh concrete.
- B. Absorptive Cover: AASHTO M 182, Class 2, burlap cloth made from jute or kenaf, weighing approximately 9 oz./sq. yd. when dry.
- C. Moisture-Retaining Cover: ASTM C 171, polyethylene film or white burlap-polyethylene sheet.
- D. Water: Potable.
- E. Curing Compounds for Other Concrete (excluding substrates for resilient or epoxy flooring):
  - 1. Clear, Waterborne, Membrane-Forming Curing Compound: ASTM C 309, Type 1, Class B, dissipating.

#### 2.7 RELATED MATERIALS

- A. Expansion- and Isolation-Joint-Filler Strips.
- 2.8 CONCRETE MIXTURES
  - A. Prepare design mixtures for each type and strength of concrete, proportioned on the basis of laboratory trial mixture or field test data, or both, according to ACI 301.

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- B. Admixtures at Other Concrete: Use admixtures according to manufacturer's written instructions.
  - 1. Use water-reducing high-range water-reducing or plasticizing admixture in concrete, as required, for placement and workability.
  - 2. Use water-reducing and retarding admixture when required by high temperatures, low humidity, or other adverse placement conditions.
  - 3. Use water-reducing admixture in pumped concrete, concrete required to be watertight, and concrete with a water-cementitious materials ratio below 0.50.
- C. Proportion normal-weight concrete mixture as follows:
  - 1. Minimum Compressive Strength at 28 Days: As indicated on Drawings.
  - 2. Maximum Water-Cementitious Materials Ratio: As indicated on Drawings.
  - 3. Slump Limit: As indicated on Drawings.
  - 4. Air Content: As indicated on Drawings.
  - 5. Synthetic Micro-Fiber: Uniformly disperse in concrete mixture at manufacturer's recommended rate, but not less than 1.5 lb/cu. yd.

#### 2.9 FABRICATING REINFORCEMENT

- A. Fabricate steel reinforcement according to CRSI's "Manual of Standard Practice."
- 2.10 CONCRETE MIXING
  - A. Ready-Mixed Concrete: Measure, batch, mix, and deliver concrete according to ASTM C 94 and ASTM C 1116 and furnish batch ticket information.
    - 1. When air temperature is between 85 and 90 deg F, reduce mixing and delivery time from 1-1/2 hours to 75 minutes; when air temperature is above 90 deg F, reduce mixing and delivery time to 60 minutes.

#### 2.11 WATERSTOPS

- A. Self-Expanding Butyl Strip Waterstops: Manufactured rectangular or trapezoidal strip, butyl rubber with sodium bentonite or other hydrophilic polymers, for adhesive bonding to concrete, 3/4 by 1 inch.
  - 1. Product: CETCO; Volclay Waterstop-RX.

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#### 2.12 VAPOR RETARDERS

A. Sheet Vapor Retarder: ASTM E 1745, Class A. Include manufacturer's recommended adhesive or pressure-sensitive tape. Minimum 10-mil thickness. Maximum 0.036 perms.

#### PART 3 - EXECUTION

#### 3.1 FORMWORK

- A. Design, erect, shore, brace, and maintain formwork, according to ACI 301, to support vertical, lateral, static, and dynamic loads, and construction loads that might be applied, until structure can support such loads.
- B. Construct formwork so concrete members and structures are of size, shape, alignment, elevation, and position indicated, within tolerance limits of ACI 117.
- C. Chamfer exterior corners and edges of permanently exposed concrete where exposed.

#### 3.2 EMBEDDED ITEMS

A. Place and secure anchorage devices and other embedded items required for adjoining work that is attached to or supported by cast-in-place concrete. Use setting drawings, templates, diagrams, instructions, and directions furnished with items to be embedded.

### 3.3 STEEL REINFORCEMENT

- A. General: Comply with CRSI's "Manual of Standard Practice" for placing reinforcement.
  - 1. Do not cut or puncture vapor retarder. Repair damage and reseal vapor retarder before placing concrete.

#### 3.4 JOINTS

- A. General: Construct joints true to line with faces perpendicular to surface plane of concrete.
- B. Construction Joints: Install so strength and appearance of concrete are not impaired, at locations indicated or as approved by Architect.

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- C. Contraction Joints in Slabs-on-Grade: Form weakened-plane contraction joints, sectioning concrete into areas as indicated. Construct contraction joints for a depth equal to at least one-fourth of concrete thickness as follows:
  - 1. Sawed Joints: Form contraction joints with power saws equipped with shatterproof abrasive or diamond-rimmed blades. Cut 1/8-inch- wide joints into concrete when cutting action will not tear, abrade, or otherwise damage surface and before concrete develops random contraction cracks.
- D. Isolation Joints in Slabs-on-Grade: After removing formwork, install joint-filler strips at slab junctions with vertical surfaces, such as column pedestals, foundation walls, grade beams, and other locations, as indicated.

#### 3.5 CONCRETE PLACEMENT

- A. Before placing concrete, verify that installation of formwork, reinforcement, and embedded items is complete and that required inspections have been performed.
- B. Do not add water to concrete during delivery, at Project site, or during placement unless approved by Architect.
- C. Schedule placement to minimize exposure to wind and hot sun before curing materials are applied.
- D. Avoid placing concrete if rain, snow, or frost is forecast within 24 hours. Protect fresh concrete from moisture and freezing.
- E. Schedule delivery of concrete to provide consistent mix times from batching until discharge. Mix times shall meet manufacturer's written recommendations.
- F. Deposit concrete continuously in one layer or in horizontal layers of such thickness that no new concrete will be placed on concrete that has hardened enough to cause seams or planes of weakness. If a section cannot be placed continuously, provide construction joints as indicated. Deposit concrete to avoid segregation.
  - 1. Consolidate placed concrete with mechanical vibrating equipment according to ACI 301.
- G. Cold-Weather Placement: Comply with ACI 306.1.
- H. Hot-Weather Placement: Comply with ACI 301.

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#### 3.6 FINISHING FORMED SURFACES

- A. Rough-Formed Finish: As-cast concrete texture imparted by form-facing material with tie holes and defects repaired and patched. Remove fins and other projections that exceed specified limits on formed-surface irregularities.
  - 1. Apply to concrete surfaces not exposed to public view.
- B. Smooth-Formed Finish: As-cast concrete texture imparted by form-facing material, arranged in an orderly and symmetrical manner with a minimum of seams. Repair and patch tie holes and defects. Remove fins and other projections that exceed specified limits on formed-surface irregularities.
  - 1. Apply to concrete surfaces exposed to public view.
- C. Rubbed Finish: Apply the following to smooth-formed finished as-cast concrete where indicated:
  - 1. Grout-Cleaned Finish: Wet concrete surfaces and apply grout of a consistency of thick paint to coat surfaces and fill small holes. Mix one part portland cement to one and one-half parts fine sand with a 1:1 mixture of bonding admixture and water. Add white portland cement in amounts determined by trial patches so color of dry grout will match adjacent surfaces. Scrub grout into voids and remove excess grout. When grout whitens, rub surface with clean burlap and keep surface damp by fog spray for at least 36 hours.
- D. Related Unformed Surfaces: At tops of walls, horizontal offsets, and similar unformed surfaces adjacent to formed surfaces, strike off smooth and finish with a texture matching adjacent formed surfaces. Continue final surface treatment of formed surfaces uniformly across adjacent unformed surfaces unless otherwise indicated.

#### 3.7 FINISHING FLOORS AND SLABS

- A. General: Comply with ACI 302.1R recommendations for screeding, restraightening, and finishing operations for concrete surfaces. Do not wet concrete surfaces.
- B. Float Finish: Consolidate surface with power-driven floats or by hand floating if area is small or inaccessible to power driven floats. Restraighten, cut down high spots, and fill low spots. Repeat float passes and restraightening until surface is left with a uniform, smooth, granular texture.
  - 1. Apply float finish to surfaces to receive trowel finish and non-slip broom finishes.
- C. Float Finish: Consolidate surface with power-driven floats or by hand floating if area is small or inaccessible to power driven floats. Restraighten, cut down high spots, and fill

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low spots. Repeat float passes and restraightening until surface is left with a uniform, smooth granular texture.

- 1. Apply float finish to surfaces indicated, to surfaces to receive trowel finish, and to floor and slab surfaces to be covered with fluid-applied or sheet waterproofing, built-up or membrane roofing, or sand-bed terrazzo.
- D. Trowel Finish: After applying float finish, apply first trowel finish and consolidate concrete by hand or power-driven trowel. Continue troweling passes and restraighten until surface is free of trowel marks and uniform in texture and appearance. Grind smooth any surface defects that would telegraph through applied coatings or floor coverings.
  - 1. Apply a trowel finish to surfaces indicated and to floor and slab surfaces exposed to view or be covered with resilient flooring, carpet, ceramic or quarry tile set over a cleavage membrane, paint, or another thin film-finish coating system.
    - a. Finish surfaces to the following tolerances, measured within 24 hours according to ASTM E 1155 for a randomly trafficked floor surface:
    - Specified overall values of flatness, F(F) 35; and levelness, F(L) 25; with minimum local values of flatness, F(F) 24; and levelness F(L) 17; for slabs-on-grade.
    - c. Specified overall values of flatness, F(F) 30; and levelness, F(L) 20; with minimum local values of flatness, F(F) 24; and levelness, F(L) 15; for suspended slabs.
  - 2. Broom Finish: Apply a broom finish to exterior concrete stage floor, platforms, steps, ramps, and elsewhere as indicated. Coordinate finish of exterior walks, stoops, pavements, etc. with the Civil Drawings and Specifications.

### 3.8 CONCRETE PROTECTING AND CURING

- A. General: Protect freshly placed concrete from premature drying and excessive cold or hot temperatures. Comply with ACI 306.1 for cold-weather protection and ACI 301 for hot-weather protection during curing.
- B. Evaporation Retarder: Apply evaporation retarder to unformed concrete surfaces if hot, dry, or windy conditions cause moisture loss approaching 0.2 lb/sq. ft. x h before and during finishing operations. Apply according to manufacturer's written instructions after placing, screeding, and bull floating or darbying concrete, but before float finishing.
- C. Cure concrete according to ACI 308.1, by one or a combination of the following methods:
  - 1. Moisture Curing: Keep surfaces continuously moist for not less than seven days.

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- 2. Moisture-Retaining-Cover Curing: Cover concrete surfaces with moistureretaining cover for curing concrete, placed in widest practicable width, with sides and ends lapped at least 12 inches, and sealed by waterproof tape or adhesive. Cure for not less than seven days. Immediately repair any holes or tears during curing period using cover material and waterproof tape.
- 3. Curing Compounds: Apply uniformly in continuous operation by power spray or roller according to manufacturer's written instructions. Recoat areas subjected to heavy rainfall within three hours after initial application. Maintain continuity of coating and repair damage during curing period.

#### 3.9 CONCRETE SURFACE REPAIRS

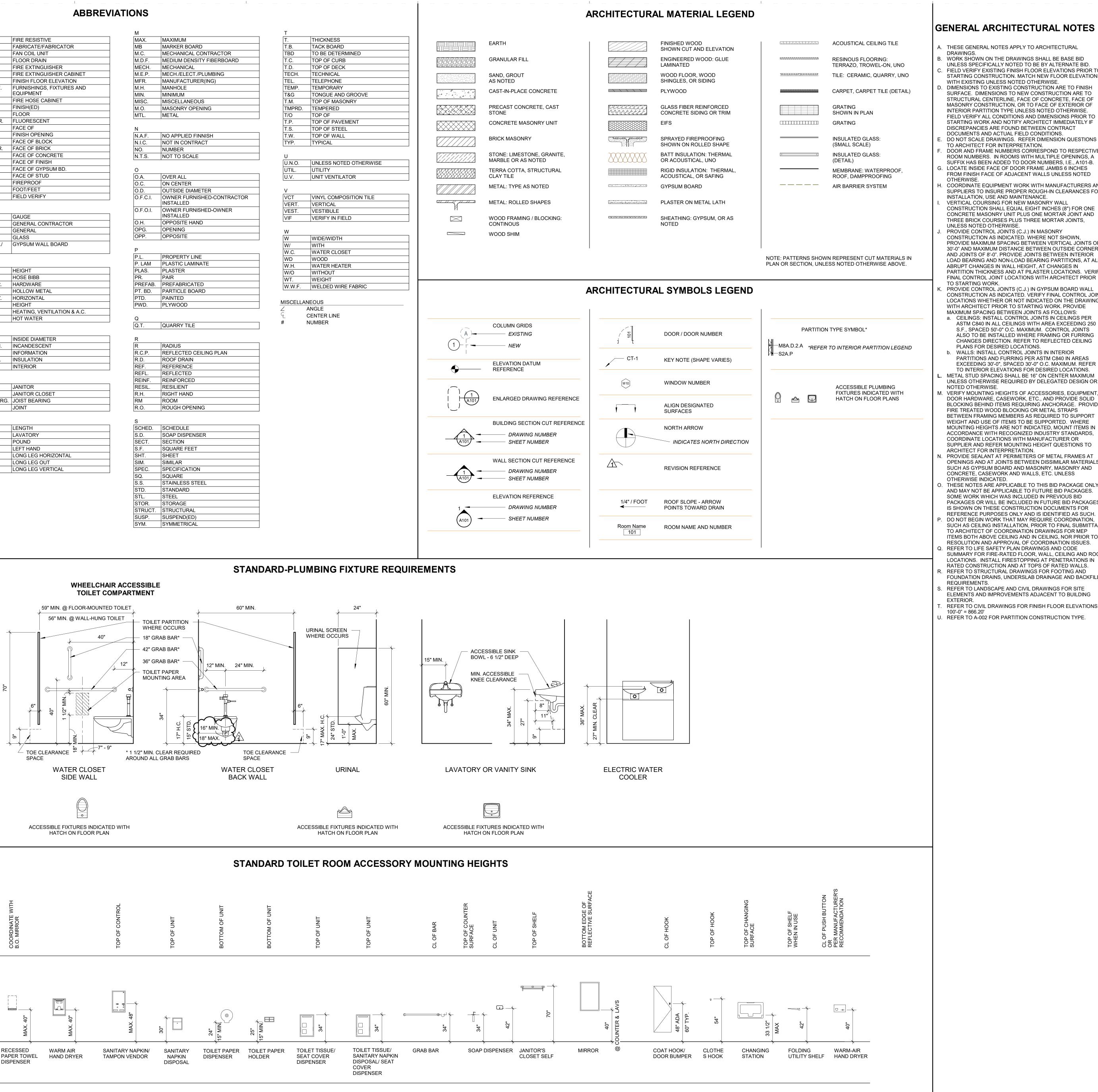
- A. Defective Concrete: Repair and patch defective areas when approved by Architect. Remove and replace concrete that cannot be repaired and patched to Architect's approval.
- 3.10 FIELD QUALITY CONTROL
  - A. Testing and Inspecting: Owner will engage a qualified testing and inspecting agency to perform field tests and inspections and prepare test reports.

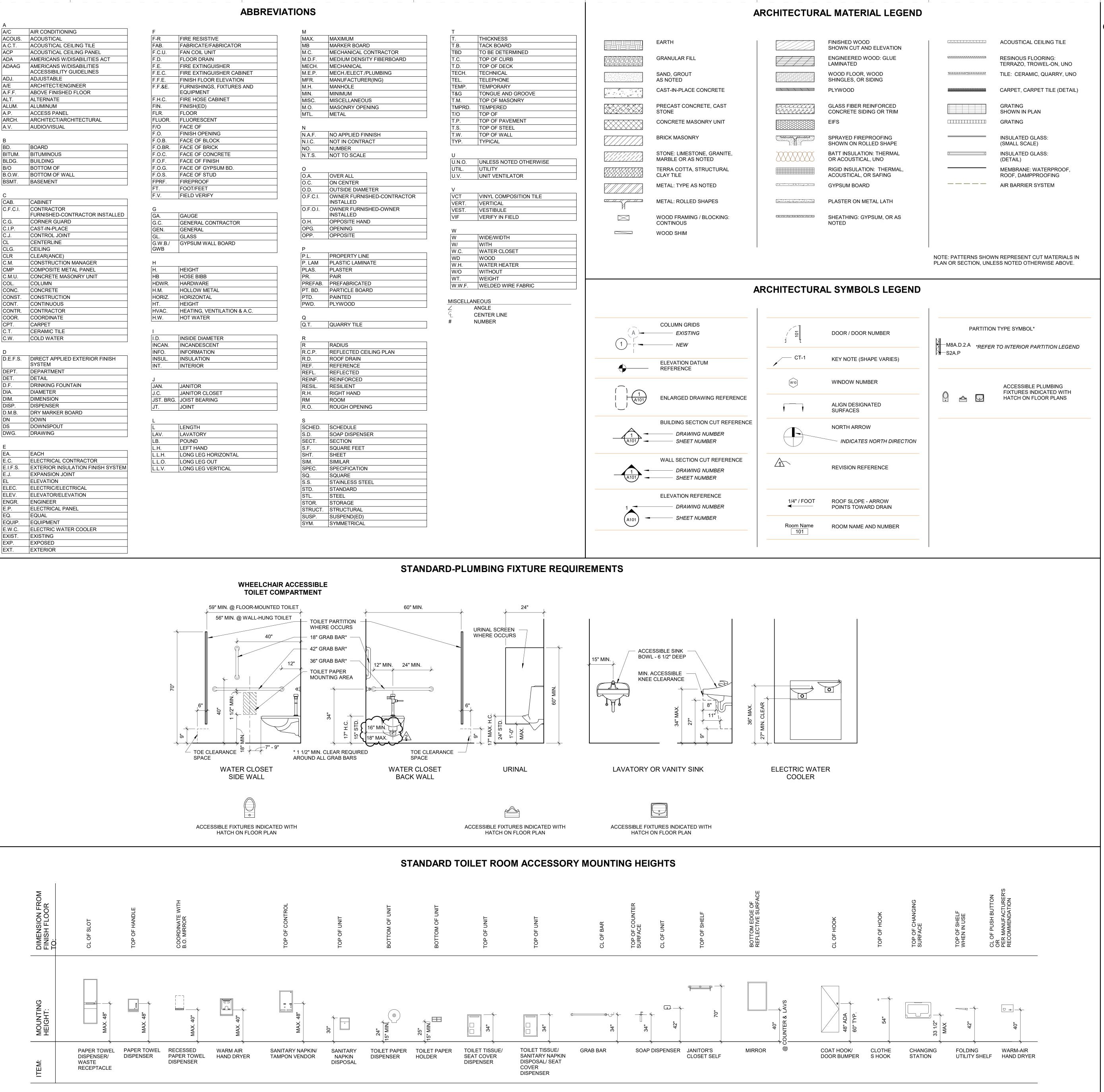
#### END OF SECTION 033000

| 100110  | AIR CONDITIONING   |
|---|--|
| ACOUS.  | ACOUSTICAL   |
| ACOUS.<br>A.C.T.  | ACOUSTICAL CEILING TILE  |
|   |  |
| ACP   | ACOUSTICAL CEILING PANEL   |
| ADA   | AMERICANS W/DISABILITIES ACT   |
| ADAAG   | AMERICANS W/DISABILITIES   |
|   | ACCESSIBILITY GUIDELINES   |
| ADJ.  | ADJUSTABLE   |
| A/E   | ARCHITECT/ENGINEER   |
|   |  |
| A.F.F.  | ABOVE FINISHED FLOOR   |
| ALT.  | ALTERNATE  |
| ALUM.   | ALUMINUM   |
| A.P.  | ACCESS PANEL   |
| ARCH.   | ARCHITECT/ARCHITECTURAL  |
|   |  |
| A.V.  | AUDIO/VISUAL   |
|   |  |
| В   |  |
| BD.   | BOARD  |
| BITUM.  | BITUMINOUS   |
|   |  |
| BLDG.   | BUILDING   |
| B/O   | BOTTOM OF  |
| B.O.W.  | BOTTOM OF WALL   |
| BSMT.   | BASEMENT   |
|   |  |
| _   |  |
| С   |  |
| CAB.  | CABINET  |
| C.F.C.I.  | CONTRACTOR   |
|   | FURNISHED-CONTRACTOR INSTALLED   |
| C.G.  | CORNER GUARD   |
|   |  |
| C.I.P.  | CAST-IN-PLACE  |
| C.J.  | CONTROL JOINT  |
| CL  | CENTERLINE   |
| CLG.  | CEILING  |
|   |  |
| CLR   | CLEAR(ANCE)  |
| C.M.  | CONSTRUCTION MANAGER   |
| CMP   | COMPOSITE METAL PANEL  |
| C.M.U.  | CONCRETE MASONRY UNIT  |
|   |  |
| COL.  | COLUMN   |
| CONC.   | CONCRETE   |
| CONST.  | CONSTRUCTION   |
| CONT.   | CONTINUOUS   |
| CONTR.  | CONTRACTOR   |
|   |  |
|   | COORDINATE   |
| COOR.   | CARPET   |
| CPT.  |  |
|   | CERAMIC TILE   |
| CPT.  | CERAMIC TILE<br>COLD WATER   |
| CPT.<br>C.T.  |  |
| CPT.<br>C.T.<br>C.W.  |  |
| CPT.<br>C.T.<br>C.W.  | COLD WATER   |
| CPT.<br>C.T.<br>C.W.  | COLD WATER<br>DIRECT APPLIED EXTERIOR FINISH   |
| CPT.<br>C.T.<br>C.W.  | COLD WATER   |
| CPT.<br>C.T.<br>C.W.  | COLD WATER<br>DIRECT APPLIED EXTERIOR FINISH   |
| CPT.<br>C.T.<br>C.W.<br>D<br>D.E.F.S.<br>DEPT.  | COLD WATER<br>DIRECT APPLIED EXTERIOR FINISH<br>SYSTEM<br>DEPARTMENT   |
| CPT.<br>C.T.<br>C.W.<br>D<br>D.E.F.S.<br>DEPT.<br>DET.  | COLD WATER<br>DIRECT APPLIED EXTERIOR FINISH<br>SYSTEM<br>DEPARTMENT<br>DETAIL   |
| CPT.<br>C.T.<br>C.W.<br>D<br>D.E.F.S.<br>DEPT.<br>DET.<br>D.F.  | COLD WATER         DIRECT APPLIED EXTERIOR FINISH         SYSTEM         DEPARTMENT         DETAIL         DRINKING FOUNTAIN   |
| CPT.<br>C.T.<br>C.W.<br>D<br>D.E.F.S.<br>DEPT.<br>DET.<br>D.F.<br>DIA.  | COLD WATER         DIRECT APPLIED EXTERIOR FINISH         SYSTEM         DEPARTMENT         DETAIL         DRINKING FOUNTAIN         DIAMETER  |
| CPT.<br>C.T.<br>C.W.<br>D<br>D.E.F.S.<br>DEPT.<br>DET.<br>D.F.  | COLD WATER         DIRECT APPLIED EXTERIOR FINISH         SYSTEM         DEPARTMENT         DETAIL         DRINKING FOUNTAIN   |
| CPT.<br>C.T.<br>C.W.<br>D<br>D.E.F.S.<br>DEPT.<br>DET.<br>D.F.<br>DIA.  | COLD WATER         DIRECT APPLIED EXTERIOR FINISH         SYSTEM         DEPARTMENT         DETAIL         DRINKING FOUNTAIN         DIAMETER  |
| CPT.<br>C.T.<br>C.W.<br>D<br>D.E.F.S.<br>DEPT.<br>DET.<br>D.F.<br>DIA.<br>DIM.<br>DISP.   | COLD WATERDIRECT APPLIED EXTERIOR FINISH<br>SYSTEMDEPARTMENTDETAILDRINKING FOUNTAINDIAMETERDIMENSIONDISPENSER  |
| CPT.<br>C.T.<br>C.W.<br>D<br>D.E.F.S.<br>DEPT.<br>DET.<br>DET.<br>DIA.<br>DIM.<br>DISP.<br>D.M.B.   | COLD WATER         DIRECT APPLIED EXTERIOR FINISH         SYSTEM         DEPARTMENT         DETAIL         DRINKING FOUNTAIN         DIAMETER         DINENSION         DISPENSER         DRY MARKER BOARD   |
| CPT.<br>C.T.<br>C.W.<br>D<br>D.E.F.S.<br>DEPT.<br>DET.<br>DIA.<br>DIA.<br>DIM.<br>DISP.<br>D.M.B.<br>DN   | COLD WATER         DIRECT APPLIED EXTERIOR FINISH         SYSTEM         DEPARTMENT         DETAIL         DRINKING FOUNTAIN         DIMENSION         DISPENSER         DRY MARKER BOARD         DOWN   |
| CPT.<br>C.T.<br>C.W.<br>D<br>D.E.F.S.<br>DEPT.<br>DET.<br>DET.<br>DIA.<br>DIM.<br>DISP.<br>D.M.B.   | COLD WATER         DIRECT APPLIED EXTERIOR FINISH         SYSTEM         DEPARTMENT         DETAIL         DRINKING FOUNTAIN         DIAMETER         DINENSION         DISPENSER         DRY MARKER BOARD   |
| CPT.<br>C.T.<br>C.W.<br>D<br>D.E.F.S.<br>DEPT.<br>DET.<br>DIA.<br>DIA.<br>DIM.<br>DISP.<br>D.M.B.<br>DN   | COLD WATER         DIRECT APPLIED EXTERIOR FINISH         SYSTEM         DEPARTMENT         DETAIL         DRINKING FOUNTAIN         DIMENSION         DISPENSER         DRY MARKER BOARD         DOWN   |
| CPT.<br>C.T.<br>C.W.<br>D<br>D.E.F.S.<br>DEPT.<br>DET.<br>DIA.<br>DIA.<br>DIM.<br>DISP.<br>D.M.B.<br>DN<br>DS   | COLD WATERDIRECT APPLIED EXTERIOR FINISH<br>SYSTEMDEPARTMENTDETAILDRINKING FOUNTAINDIAMETERDIMENSIONDISPENSERDRY MARKER BOARDDOWNDOWNSPOUT   |
| CPT.<br>C.T.<br>C.W.<br>D<br>D.E.F.S.<br>DEPT.<br>DET.<br>DIA.<br>DIM.<br>DISP.<br>DISP.<br>D.M.B.<br>DN<br>DS<br>DWG.  | COLD WATERDIRECT APPLIED EXTERIOR FINISH<br>SYSTEMDEPARTMENTDETAILDRINKING FOUNTAINDIAMETERDIMENSIONDISPENSERDRY MARKER BOARDDOWNDOWNSPOUT   |
| CPT.<br>C.T.<br>C.W.<br>D<br>D.E.F.S.<br>DEPT.<br>DET.<br>DIA.<br>DISP.<br>DIM.<br>DISP.<br>D.M.B.<br>DN<br>DS<br>DWG.<br>E   | COLD WATERDIRECT APPLIED EXTERIOR FINISH<br>SYSTEMDEPARTMENTDETAILDRINKING FOUNTAINDIAMETERDIMENSIONDISPENSERDRY MARKER BOARDDOWNDOWNSPOUTDRAWING  |
| CPT.<br>C.T.<br>C.W.<br>D<br>D.E.F.S.<br>DEPT.<br>DET.<br>DIA.<br>DISP.<br>DIM.<br>DISP.<br>D.M.B.<br>DN<br>DS<br>DWG.<br>E<br>EA.  | COLD WATERDIRECT APPLIED EXTERIOR FINISH<br>SYSTEMDEPARTMENTDETAILDRINKING FOUNTAINDIAMETERDIMENSIONDISPENSERDRY MARKER BOARDDOWNDOWNSPOUT   |
| CPT.<br>C.T.<br>C.W.<br>D<br>D.E.F.S.<br>DEPT.<br>DET.<br>DIA.<br>DISP.<br>DIM.<br>DISP.<br>D.M.B.<br>DN<br>DS<br>DWG.<br>E   | COLD WATERDIRECT APPLIED EXTERIOR FINISH<br>SYSTEMDEPARTMENTDETAILDRINKING FOUNTAINDIAMETERDIMENSIONDISPENSERDRY MARKER BOARDDOWNDOWNSPOUTDRAWINGEACH  |
| CPT.<br>C.T.<br>C.W.<br>D<br>D.E.F.S.<br>DEPT.<br>DET.<br>DIA.<br>DIM.<br>DISP.<br>DIM.<br>DISP.<br>D.M.B.<br>DN<br>DS<br>DWG.<br>E<br>EA.<br>E.C.  | COLD WATERDIRECT APPLIED EXTERIOR FINISH<br>SYSTEMDEPARTMENTDETAILDRINKING FOUNTAINDIAMETERDIMENSIONDISPENSERDRY MARKER BOARDDOWNDOWNSPOUTDRAWINGEACHELECTRICAL CONTRACTOR   |
| CPT.<br>C.T.<br>C.W.<br>D<br>D.E.F.S.<br>DEPT.<br>DET.<br>DIA.<br>DIM.<br>DISP.<br>DIM.<br>DISP.<br>DIM.<br>DISP.<br>DIM.<br>E.<br>C.<br>E.<br>E.<br>C.<br>E.<br>C.<br>E.<br>C.<br>E.<br>C.<br>E.<br>C.<br>S.             | COLD WATER         DIRECT APPLIED EXTERIOR FINISH         SYSTEM         DEPARTMENT         DETAIL         DRINKING FOUNTAIN         DIAMETER         DIMENSION         DISPENSER         DRY MARKER BOARD         DOWN         DOWNSPOUT         DRAWING         EACH         ELECTRICAL CONTRACTOR         EXTERIOR INSULATION FINISH SYSTEM   |
| CPT.<br>C.T.<br>C.W.<br>D<br>D.E.F.S.<br>DEPT.<br>DET.<br>DIA.<br>DISP.<br>DIM.<br>DISP.<br>D.M.B.<br>DN<br>DS<br>DWG.<br>E<br>EA.<br>E.C.<br>E.I.F.S.<br>E.J.  | COLD WATER         DIRECT APPLIED EXTERIOR FINISH         SYSTEM         DEPARTMENT         DETAIL         DRINKING FOUNTAIN         DIMENSION         DISPENSER         DRY MARKER BOARD         DOWN         DOWNSPOUT         DRAWING         EACH         ELECTRICAL CONTRACTOR         EXTERIOR INSULATION FINISH SYSTEM         EXPANSION JOINT  |
| CPT.<br>C.T.<br>C.W.<br>D<br>D.E.F.S.<br>DEPT.<br>DET.<br>DIA.<br>DIM.<br>DISP.<br>DIM.<br>DISP.<br>DIM.<br>DISP.<br>DIM.<br>E.<br>C.<br>E.<br>E.<br>C.<br>E.<br>C.<br>E.<br>C.<br>E.<br>C.<br>E.<br>C.<br>S.             | COLD WATER         DIRECT APPLIED EXTERIOR FINISH         SYSTEM         DEPARTMENT         DETAIL         DRINKING FOUNTAIN         DIAMETER         DIMENSION         DISPENSER         DRY MARKER BOARD         DOWN         DOWNSPOUT         DRAWING         EACH         ELECTRICAL CONTRACTOR         EXTERIOR INSULATION FINISH SYSTEM   |
| CPT.<br>C.T.<br>C.W.<br>D<br>D.E.F.S.<br>DEPT.<br>DET.<br>DIA.<br>DISP.<br>DIM.<br>DISP.<br>D.M.B.<br>DN<br>DS<br>DWG.<br>E<br>EA.<br>E.C.<br>E.I.F.S.<br>EL  | COLD WATER         DIRECT APPLIED EXTERIOR FINISH         SYSTEM         DEPARTMENT         DETAIL         DRINKING FOUNTAIN         DIAMETER         DIMENSION         DISPENSER         DRY MARKER BOARD         DOWN         DOWNSPOUT         DRAWING         EACH         ELECTRICAL CONTRACTOR         EXTERIOR INSULATION FINISH SYSTEM         EXPANSION JOINT         ELEVATION   |
| CPT.<br>C.T.<br>C.W.<br>D<br>D.E.F.S.<br>DEPT.<br>DET.<br>DET.<br>DIA.<br>DIM.<br>DISP.<br>DIM.<br>DISP.<br>D.M.B.<br>DN<br>DS<br>DWG.<br>E<br>EA.<br>E.C.<br>E.I.F.S.<br>EL<br>ELEC.                                     | COLD WATER         DIRECT APPLIED EXTERIOR FINISH         SYSTEM         DEPARTMENT         DETAIL         DRINKING FOUNTAIN         DIAMETER         DIMENSION         DISPENSER         DRY MARKER BOARD         DOWN         DOWNSPOUT         DRAWING         EACH         ELECTRICAL CONTRACTOR         EXPANSION JOINT         ELECATION         ELECTRIC/ELECTRICAL   |
| CPT.<br>C.T.<br>C.W.<br>D<br>D.E.F.S.<br>DEPT.<br>DET.<br>DIA.<br>DIM.<br>DISP.<br>DIM.<br>DISP.<br>DIM.<br>DISP.<br>CON<br>ELEC.<br>ELEC.<br>ELEC.<br>ELEV.  | COLD WATER         DIRECT APPLIED EXTERIOR FINISH         SYSTEM         DEPARTMENT         DETAIL         DRINKING FOUNTAIN         DIAMETER         DIMENSION         DISPENSER         DRY MARKER BOARD         DOWN         DOWNSPOUT         DRAWING         EACH         ELECTRICAL CONTRACTOR         EXPANSION JOINT         ELEVATION         ELECTRIC/ELECTRICAL         ELEVATOR/ELEVATION  |
| CPT.<br>C.T.<br>C.W.<br>D<br>D.E.F.S.<br>DEPT.<br>DET.<br>DET.<br>DIA.<br>DIM.<br>DISP.<br>DIM.<br>DISP.<br>D.M.B.<br>DN<br>DS<br>DWG.<br>E<br>EA.<br>E.C.<br>E.I.F.S.<br>EL<br>ELEC.                                     | COLD WATER         DIRECT APPLIED EXTERIOR FINISH         SYSTEM         DEPARTMENT         DETAIL         DRINKING FOUNTAIN         DIAMETER         DIMENSION         DISPENSER         DRY MARKER BOARD         DOWN         DOWNSPOUT         DRAWING         EACH         ELECTRICAL CONTRACTOR         EXPANSION JOINT         ELECTRIC/ELECTRICAL         ELEVATION         ELECTRIC/ELECTRICAL         ELEVATOR/ELEVATION         ENGINEER                   |
| CPT.<br>C.T.<br>C.W.<br>D<br>D.E.F.S.<br>DEPT.<br>DET.<br>DIA.<br>DIM.<br>DISP.<br>DIM.<br>DISP.<br>DIM.<br>DISP.<br>CON<br>ELEC.<br>ELEC.<br>ELEC.<br>ELEV.  | COLD WATER         DIRECT APPLIED EXTERIOR FINISH         SYSTEM         DEPARTMENT         DETAIL         DRINKING FOUNTAIN         DIAMETER         DIMENSION         DISPENSER         DRY MARKER BOARD         DOWN         DOWNSPOUT         DRAWING         EACH         ELECTRICAL CONTRACTOR         EXPANSION JOINT         ELEVATION         ELECTRIC/ELECTRICAL         ELEVATOR/ELEVATION  |
| CPT.<br>C.T.<br>C.W.<br>D<br>D.E.F.S.<br>DEPT.<br>DET.<br>DIA.<br>DISP.<br>DIM.<br>DISP.<br>D.M.B.<br>DN<br>DS<br>DWG.<br>E<br>EA.<br>E.C.<br>E.I.F.S.<br>EL<br>ELEC.<br>ELEV.<br>ENGR.<br>E.P.                           | COLD WATER         DIRECT APPLIED EXTERIOR FINISH         SYSTEM         DEPARTMENT         DETAIL         DRINKING FOUNTAIN         DIAMETER         DIMENSION         DISPENSER         DRY MARKER BOARD         DOWN         DOWNSPOUT         DRAWING         EACH         ELECTRICAL CONTRACTOR         EXPANSION JOINT         ELEVATION         ELECTRIC/ELECTRICAL         ELEVATOR/ELEVATION         ENGINEER         ELECTRICAL PANEL                      |
| CPT.<br>C.T.<br>C.W.<br>D.E.F.S.<br>DEPT.<br>DET.<br>DET.<br>DIA.<br>DIM.<br>DISP.<br>D.M.B.<br>DN<br>DS<br>DWG.<br>E<br>EA.<br>E.C.<br>E.I.F.S.<br>E.J.<br>EL<br>ELEC.<br>ELEV.<br>ENGR.<br>E.P.<br>EQ.                  | COLD WATER         DIRECT APPLIED EXTERIOR FINISH         SYSTEM         DEPARTMENT         DETAIL         DRINKING FOUNTAIN         DIAMETER         DIMENSION         DISPENSER         DRY MARKER BOARD         DOWN         DOWNSPOUT         DRAWING         EACH         ELECTRICAL CONTRACTOR         EXPANSION JOINT         ELECATION         ELECTRIC/ELECTRICAL         ELEVATION         ENGINEER         ELECTRICAL PANEL         EQUAL                 |
| CPT.<br>C.T.<br>C.W.<br>D.E.F.S.<br>DEPT.<br>DET.<br>DIA.<br>DISP.<br>DIM.<br>DISP.<br>DIM.<br>DISP.<br>DIM.<br>E.<br>E.<br>E.<br>E.<br>E.<br>E.<br>E.<br>E.<br>E.<br>E   | COLD WATER         DIRECT APPLIED EXTERIOR FINISH         SYSTEM         DEPARTMENT         DETAIL         DRINKING FOUNTAIN         DIAMETER         DIMENSION         DISPENSER         DRY MARKER BOARD         DOWN         DOWNSPOUT         DRAWING         EACH         ELECTRICAL CONTRACTOR         EXPANSION JOINT         ELECTRIC/ELECTRICAL         ELEVATION         ELECTRICAL PANEL         EQUIPMENT  |
| CPT.<br>C.T.<br>C.W.<br>D.E.F.S.<br>DEPT.<br>DET.<br>DET.<br>DIA.<br>DIM.<br>DISP.<br>D.M.B.<br>DN<br>DS<br>DWG.<br>E<br>EA.<br>E.C.<br>E.I.F.S.<br>E.J.<br>EL<br>ELEC.<br>ELEV.<br>ENGR.<br>E.P.<br>EQ.                  | COLD WATER         DIRECT APPLIED EXTERIOR FINISH         SYSTEM         DEPARTMENT         DETAIL         DRINKING FOUNTAIN         DIAMETER         DIMENSION         DISPENSER         DRY MARKER BOARD         DOWN         DOWNSPOUT         DRAWING         EACH         ELECTRICAL CONTRACTOR         EXPANSION JOINT         ELEVATION         ELECTRIC/ELECTRICAL         ELEVATOR/ELEVATION         ENGINEER         EQUAL                                 |
| CPT.<br>C.T.<br>C.W.<br>D.E.F.S.<br>DEPT.<br>DET.<br>DIA.<br>DISP.<br>DIM.<br>DISP.<br>DIM.<br>DISP.<br>DIM.<br>E.<br>E.<br>E.<br>E.<br>E.<br>E.<br>E.<br>E.<br>E.<br>E   | COLD WATER         DIRECT APPLIED EXTERIOR FINISH         SYSTEM         DEPARTMENT         DETAIL         DRINKING FOUNTAIN         DIAMETER         DIMENSION         DISPENSER         DRY MARKER BOARD         DOWN         DOWNSPOUT         DRAWING         EACH         ELECTRICAL CONTRACTOR         EXPANSION JOINT         ELECTRIC/ELECTRICAL         ELEVATION         ELECTRICAL PANEL         EQUIPMENT  |
| CPT.<br>C.T.<br>C.W.<br>D.E.F.S.<br>DEPT.<br>DET.<br>DIA.<br>DISP.<br>DIM.<br>DISP.<br>D.M.B.<br>DN<br>DS<br>DWG.<br>E<br>EA.<br>E.C.<br>E.I.F.S.<br>E.J.<br>ELEC.<br>ELEV.<br>ELEV.<br>ENGR.<br>E.P.<br>EQUIP.<br>E.W.C. | COLD WATER         DIRECT APPLIED EXTERIOR FINISH         SYSTEM         DEPARTMENT         DETAIL         DRINKING FOUNTAIN         DIAMETER         DIMENSION         DISPENSER         DRY MARKER BOARD         DOWN         DOWNSPOUT         DRAWING         EACH         ELECTRICAL CONTRACTOR         EXPANSION JOINT         ELECTRIC/ELECTRICAL         ELEVATION         ENGINEER         ELECTRICAL PANEL         EQUIPMENT         ELECTRIC WATER COOLER |

EXP.

| _              |                                  | M          |
|----------------|----------------------------------|------------|
| R              |                                  | MA         |
| AB.            |                                  | MB         |
| C.U.           |                                  | M.(        |
| .D.<br>.E.     | FLOOR DRAIN<br>FIRE EXTINGUISHER | ME         |
|                | FIRE EXTINGUISHER                | ME<br>M.E  |
| .E.C.<br>.F.E. | FINISH FLOOR ELEVATION           | MF         |
| F.&E.          | FURNISHINGS, FIXTURES AND        | M.F        |
| Γ.αΕ.          | EQUIPMENT                        | MIN MIN    |
| H.C.           | FIRE HOSE CABINET                | MI         |
| N.             | FINISH(ED)                       | M.C        |
| LR.            | FLOOR                            | MT         |
| LUOR.          | FLUORESCENT                      |            |
| 0              | FACE OF                          | N          |
| .0.            | FINISH OPENING                   | N.A        |
| О.В.           | FACE OF BLOCK                    | N.I        |
| O.BR.          | FACE OF BRICK                    |            |
| O.C.           | FACE OF CONCRETE                 | N.1        |
| 0.F.           | FACE OF FINISH                   |            |
| 0.G.           | FACE OF GYPSUM BD.               | o          |
| .O.S.          | FACE OF STUD                     |            |
| PRF.           | FIREPROOF                        | 0.0        |
| Т.             | FOOT/FEET                        | 0.0        |
| V.             | FIELD VERIFY                     | 0.E        |
|                |                                  | [0.1       |
|                |                                  | O.F        |
| Α.             | GAUGE                            |            |
| .C.            | GENERAL CONTRACTOR               | 0.1        |
| EN.            | GENERAL                          | OP         |
| L.             | GLASS                            | OP         |
| <br>.W.B./     | GYPSUM WALL BOARD                |            |
| WB             |                                  | Р          |
|                |                                  | P.L<br>P.I |
|                | HEIGHT                           | PL         |
| B              | HOSE BIBB                        | PR         |
| DWR.           | HARDWARE                         | PR         |
| .M.            | HOLLOW METAL                     | PR PR      |
|                | HORIZONTAL                       |            |
| oriz.<br>T.    | HEIGHT                           | PT<br>PW   |
| VAC.           |                                  |            |
|                | HEATING, VENTILATION & A.C.      |            |
| .W.            | HOT WATER                        | Q.1        |
|                |                                  | Q.         |
| D.             | INSIDE DIAMETER                  | R          |
| J.<br>ICAN.    | INCANDESCENT                     | R          |
| IFO.           | INFORMATION                      | R.0        |
| ISUL.          | INSULATION                       | R.0        |
|                | INTERIOR                         |            |
| IT.            | INTERIOR                         |            |
|                |                                  | RE         |
|                |                                  | RE         |
| AN.            | JANITOR                          | RE         |
| C.             | JANITOR CLOSET                   | R.H        |
| ST. BRG.       |                                  | RM         |
| Г.             | JOINT                            | R.0        |
|                |                                  |            |
|                |                                  | S          |
|                | LENGTH                           | SC         |
| AV.            | LAVATORY                         | S.E        |
| 3.             | POUND                            | SE         |
| H.             | LEFT HAND                        | S.F        |
| L.H.           | LONG LEG HORIZONTAL              | SH         |
| L.O.           | LONG LEG OUT                     | SIN        |
| L.V.           | LONG LEG VERTICAL                | SP         |
|                |                                  | SQ         |
|                |                                  | S.5        |
|                |                                  | ST         |
|                |                                  | ST         |





#### DISCREPANCIES ARE FOUND BETWEEN CONTRACT DOCUMENTS AND ACTUAL FIELD CONDITIONS. DO NOT SCALE DRAWINGS. REFER DIMENSION QUESTIONS TO ARCHITECT FOR INTERPRETATION. DOOR AND FRAME NUMBERS CORRESPOND TO RESPECTIVE ROOM NUMBERS. IN ROOMS WITH MULTIPLE OPENINGS, A SUFFIX HAS BEEN ADDED TO DOOR NUMBERS, I.E., A101-B. 6. LOCATE INSIDE FACE OF DOOR FRAME JAMBS 6 INCHES FROM FINISH FACE OF ADJACENT WALLS UNLESS NOTED OTHERWISE. . COORDINATE EQUIPMENT WORK WITH MANUFACTURERS AND SUPPLIERS TO INSURE PROPER ROUGH-IN CLEARANCES FOR INSTALLATION, USE AND MAINTENANCE. VERTICAL COURSING FOR NEW MASONRY WALL CONSTRUCTION SHALL EQUAL EIGHT INCHES (8") FOR ONE CONCRETE MASONRY UNIT PLUS ONE MORTAR JOINT AND THREE BRICK COURSES PLUS THREE MORTAR JOINTS, UNLESS NOTED OTHERWISE. PROVIDE CONTROL JOINTS (C.J.) IN MASONRY CONSTRUCTION AS INDICATED. WHERE NOT SHOWN, PROVIDE MAXIMUM SPACING BETWEEN VERTICAL JOINTS OF 30'-0" AND MAXIMUM DISTANCE BETWEEN OUTSIDE CORNERS AND JOINTS OF 8'-0". PROVIDE JOINTS BETWEEN INTERIOR LOAD BEARING AND NON-LOAD BEARING PARTITIONS, AT ALL ABRUPT CHANGES IN WALL HEIGHT, AT CHANGES IN PARTITION THICKNESS AND AT PILASTER LOCATIONS. VERIFY FINAL CONTROL JOINT LOCATIONS WITH ARCHITECT PRIOR TO STARTING WORK. PROVIDE CONTROL JOINTS (C.J.) IN GYPSUM BOARD WALL CONSTRUCTION AS INDICATED. VERIFY FINAL CONTROL JOINT LOCATIONS WHETHER OR NOT INDICATED ON THE DRAWINGS WITH ARCHITECT PRIOR TO STARTING WORK. PROVIDE MAXIMUM SPACING BETWEEN JOINTS AS FOLLOWS: a. CEILINGS: INSTALL CONTROL JOINTS IN CEILINGS PER ASTM C840 IN ALL CEILINGS WITH AREA EXCEEDING 250 S.F., SPACED 50'-0" O.C. MAXIMUM. CONTROL JOINTS ALSO TO BE INSTALLED WHERE FRAMING OR FURRING CHANGES DIRECTION. REFER TO REFLECTED CEILING PLANS FOR DESIRED LOCATIONS. b. WALLS: INSTALL CONTROL JOINTS IN INTERIOR PARTITIONS AND FURRING PER ASTM C840 IN AREAS EXCEEDING 30'-0", SPACED 30'-0" O.C. MAXIMUM. REFER TO INTERIOR ELEVATIONS FOR DESIRED LOCATIONS. METAL STUD SPACING SHALL BE 16" ON CENTER MAXIMUM UNLESS OTHERWISE REQUIRED BY DELEGATED DESIGN OR NOTED OTHERWISE. I. VERIFY MOUNTING HEIGHTS OF ACCESSORIES, EQUIPMENT, DOOR HARDWARE, CASEWORK, ETC., AND PROVIDE SOLID BLOCKING BEHIND ITEMS REQUIRING ANCHORAGE. PROVIDE FIRE TREATED WOOD BLOCKING OR METAL STRAPS BETWEEN FRAMING MEMBERS AS REQUIRED TO SUPPORT

A. THESE GENERAL NOTES APPLY TO ARCHITECTURAL

WITH EXISTING UNLESS NOTED OTHERWISE.

. WORK SHOWN ON THE DRAWINGS SHALL BE BASE BID

UNLESS SPECIFICALLY NOTED TO BE BY ALTERNATE BID.

FIELD VERIFY EXISTING FINISH FLOOR ELEVATIONS PRIOR TO

STARTING CONSTRUCTION. MATCH NEW FLOOR ELEVATIONS

DIMENSIONS TO EXISTING CONSTRUCTION ARE TO FINISH

SURFACE. DIMENSIONS TO NEW CONSTRUCTION ARE TO

STRUCTURAL CENTERLINE, FACE OF CONCRETE, FACE OF

MASONRY CONSTRUCTION, OR TO FACE OF EXTERIOR OF

FIELD VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO

STARTING WORK AND NOTIFY ARCHITECT IMMEDIATELY IF

INTERIOR PARTITION TYPE UNLESS NOTED OTHERWISE.

DRAWINGS.

- WEIGHT AND USE OF ITEMS TO BE SUPPORTED. WHERE MOUNTING HEIGHTS ARE NOT INDICATED. MOUNT ITEMS IN ACCORDANCE WITH RECOGNIZED INDUSTRY STANDARDS, COORDINATE LOCATIONS WITH MANUFACTURER OR SUPPLIER AND REFER MOUNTING HEIGHT QUESTIONS TO ARCHITECT FOR INTERPRETATION. N. PROVIDE SEALANT AT PERIMETERS OF METAL FRAMES AT OPENINGS AND AT JOINTS BETWEEN DISSIMILAR MATERIALS SUCH AS GYPSUM BOARD AND MASONRY, MASONRY AND
- CONCRETE, CASEWORK AND WALLS, ETC. UNLESS OTHERWISE INDICATED. THESE NOTES ARE APPLICABLE TO THIS BID PACKAGE ONLY AND MAY NOT BE APPLICABLE TO FUTURE BID PACKAGES. SOME WORK WHICH WAS INCLUDED IN PREVIOUS BID PACKAGES OR WILL BE INCLUDED IN FUTURE BID PACKAGES IS SHOWN ON THESE CONSTRUCTION DOCUMENTS FOR REFERENCE PURPOSES ONLY AND IS IDENTIFIED AS SUCH.
- DO NOT BEGIN WORK THAT MAY REQUIRE COORDINATION. SUCH AS CEILING INSTALLATION, PRIOR TO FINAL SUBMITTAL TO ARCHITECT OF COORDINATION DRAWINGS FOR MEP ITEMS BOTH ABOVE CEILING AND IN CEILING, NOR PRIOR TO RESOLUTION AND APPROVAL OF COORDINATION ISSUES. . REFER TO LIFE SAFETY PLAN DRAWINGS AND CODE SUMMARY FOR FIRE-RATED FLOOR, WALL, CEILING AND ROOF
- LOCATIONS, INSTALL FIRESTOPPING AT PENETRATIONS IN RATED CONSTRUCTION AND AT TOPS OF RATED WALLS. REFER TO STRUCTURAL DRAWINGS FOR FOOTING AND FOUNDATION DRAINS, UNDERSLAB DRAINAGE AND BACKFILI REQUIREMENTS. REFER TO LANDSCAPE AND CIVIL DRAWINGS FOR SITE
- ELEMENTS AND IMPROVEMENTS ADJACENT TO BUILDING EXTERIOR REFER TO CIVIL DRAWINGS FOR FINISH FLOOR ELEVATIONS
- 100'-0" = 866.20' J. REFER TO A-002 FOR PARTITION CONSTRUCTION TYPE.

# IndyPL Fort Ben Branch Library 9330 E. 56th Street Indianapolis, IN 46216

The Indianapolis Public Library 2450 North Meridian Street Indianapolis, IN 46208 (317)-275-4100

Architect RATIO 101 South Pennsylvania Street Indianapolis, Indiana 46204 317-633-4040

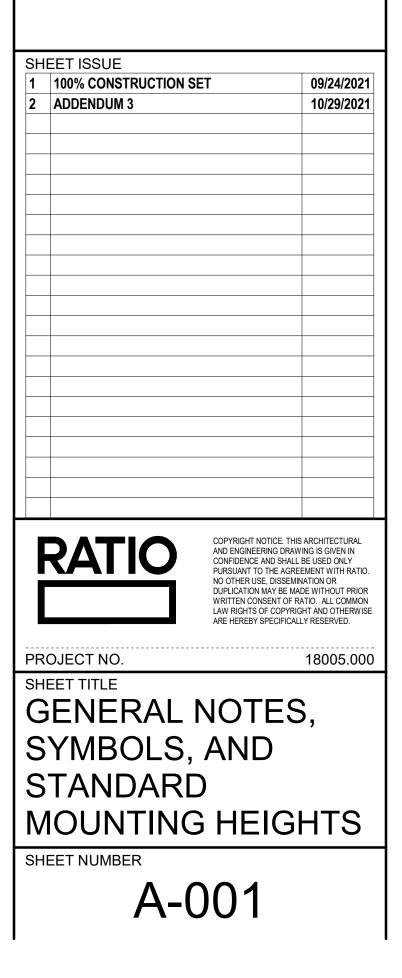
Structural Engineer LYNCH. HARRISON & BRUMLEVE, INC. 550 Virginia Avenue Indianapolis, Indiana 46203

Mechanical / Electrical Engineer LOFTUS ENGINEERING, INC. 201 South Capitol Avenue, Suite 310 Indianapolis, Indiana 46225 (317)-352-5822

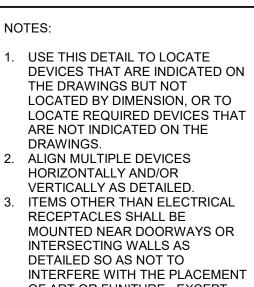
Civil Engineer THE SCHNEIDER CORPORATION Historic Fort Harrison 8901 Otis Avenue Indianapolis, Indiana 46216 (317)-826-7100

Acoustical / AV Consultant DESIGN 27 1650 E. 49th Street Indianapolis, Indiana 46205 (317)-536-8000





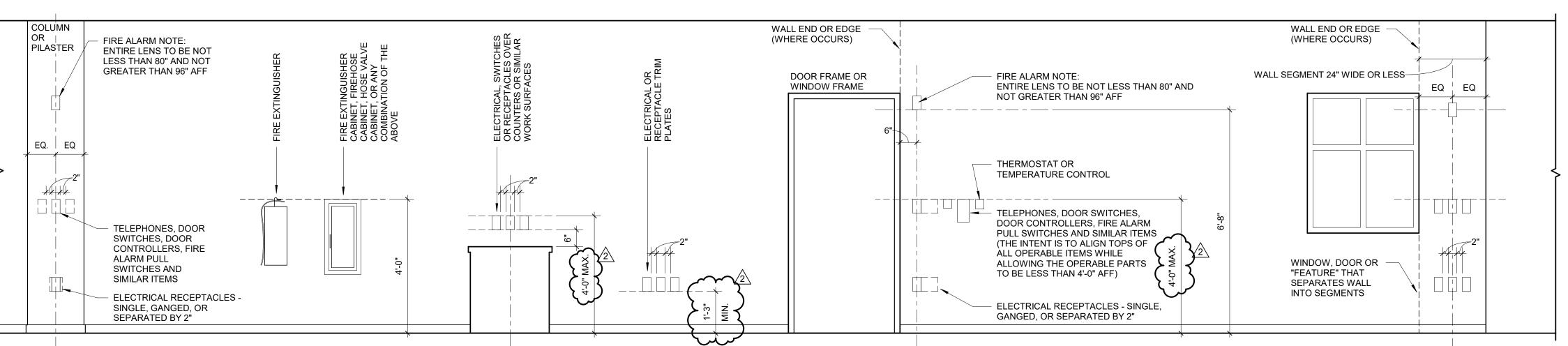
|                                      |                  |                                      |   |  | CT-01-                  |  |  |   |
|--------------------------------------|------------------|--------------------------------------|---|--|-------------------------|--|--|---|
| FINISH TYPE                          | TAG              | MANUFACTURER                         | STYLE   | SIZE   | PRODUCT<br>NUMBER       | FINISH DESCRIPTION<br>COLOR  | INSTALL NOTES  | COMMENTS  |
| WALL<br>ALUMINUM DRYWALL TRII        | M ADT-01         | FRY REGLET                           | WALL COVER TRIM OUTSIDE CORNER                          | 7/32" EXPOSED EDGE; 1-3/4" LEG TO TAPE AND<br>JOINT        | WCTOSC                  | PROVIDE ARCHITECT FULL RANGE OF COLORS FOR<br>SELECTION  | INSTALL INSTALL DRYWALL TRIM FROM TOP OF BASE TO<br>UNDERSIDE OF CEILING. REF TO RCP FOR HEIGHT. REFER TO<br>DETAIL C6/A-522   | DIGITAL WALL COVERING CORNER CONDITIONS                           |
| LUMINUM DRYWALL TRI                  | M ADT-02         | FRY REGLET                           | WALL COVER TRIM TERMINATION                             | 7/32" EXPOSED EDGE; 1-3/4" LEG TO TAPE AND<br>JOINT        | WCTBT                   | PROVIDE ARCHITECT FULL RANGE OF COLORS FOR SELECTION   |  | DIGITAL WALL COVERING EDGE CONDITIONS                             |
| COUSTICAL TREATMENT                  | T AT-01          | ARMSTRONG                            | TECTUM PANEL ART WALLS                                  | SHAPES: 7-1/2" HEXAGON                                     | 1111                    | CUSTOM COLORS (12 COLORS TOTAL) REFER TO<br>ELEVATION FOR LOCATIONS  | MOUNT HEXGON SHAPES TO 3/4" PAINTED PLYWOOD  |   |
| ORNER GUARD                          | CG-01            | CONSTRUCTION SPECIALTIES             | APPLIED CHANNEL/END WALL GUARD                          | 2" LEG, 1/4" RADIUS, PROVIDE FULL HEIGHT AFF<br>TO CEILING | SSM-25N<br>(PVC-FREE)   | 933 MISSION WHITE  | INSTALL ABOVE BASE UP TO INSTALL TO UNDERSIDE OF<br>CEILING. REF RCP FOR HEIGHT  |   |
| CORNER GUARD                         | CG-02            | CONSTRUCTION SPECIALTIES             | APPLIED CHANNEL/END WALL GUARD                          | 2" LEG, 1/4" RADIUS, PROVIDE FULL HEIGHT AFF<br>TO CEILING | (PVC-FREE)              | 1526 BALTIC BLUE   | INSTALL ABOVE BASE UP TO INSTALL TO UNDERSIDE OF<br>CEILING. REF RCP FOR HEIGHT  |   |
| CORNER GUARD                         | CG-03            | CONSTRUCTION SPECIALTIES             | END WALL APPLIED CORNER GUARD                           | 2" LEG, 1/4" RADIUS, PROVIDE FULL HEIGHT AFF<br>TO CEILING | SSM-25AN<br>(PVC-FREE)  | 933 MISSION WHITE  | INSTALL ABOVE BASE UP TO INSTALL TO UNDERSIDE OF<br>CEILING. REF RCP FOR HEIGHT  |   |
| PORCELAIN TILE                       | CT-01            | DALTILE                              | REMEDY  | 3/8" x 2-3/8" x 9-1/2" (ACTUAL SIZE: 1.811 x 9.016)        | N/A                     | RANDOM BLEND: 50% HERBAL RD21 & 50% HYDRO<br>RD22  | 1/16" GROUT JOINT  | ALTERNATE AT FIREPLACE WALL                                       |
| PORCELAIN TILE                       | CT-02            | DALTILE                              | COLOR WHEEL CLASSIC                                     | 5/16" THICK x 4" x 4"                                      | N/A                     | RANDOM BLEND: 75% DESERT GRAY SEMI-GLOSS & 25% DESERT GRAY MATTE   | 1/16" GROUT JOINT  | ALTERNATE WITHIN RESTROOMS  |
| HIGH PERFORMANCE<br>COATING          | HPC-01           | SHERWIN WILLIAMS                     | PER SPECIFICATION                                       | N/A  | SW 7008                 | ALABASTER  |  | WHITE   |
| HIGH PERFORMANCE                     | HPC-02           | SHERWIN WILLIAMS                     | PER SPECIFICATION                                       | N/A  | SW 7504                 | KEYSTONE GRAY  |  | PUBLIC - WEST PORCH   |
| HIGH PERFORMANCE                     | HPC-03           | SHERWIN WILLIAMS                     | PER SPECIFICATION                                       | N/A  | SW 6457                 | KIND GREEN   |  | PUBLIC - SOUTH PORCH  |
| PAINT<br>PAINT                       | PT-01<br>PT-02   | SHERWIN WILLIAMS<br>SHERWIN WILLIAMS | PER SPECIFICATION<br>PER SPECIFICATION                  | N/A<br>N/A   | SW 7008<br>SW 7504      | ALABASTER<br>KEYSTONE GRAY   |  | WHITE<br>PUBLIC - WEST PORCH                                      |
| PAINT                                | PT-03            | SHERWIN WILLIAMS                     | PER SPECIFICATION                                       | N/A  | SW 6457                 | KIND GREEN   |  | PUBLIC - SOUTH PORCH  |
| PAINT<br>PAINT                       | PT-04<br>PT-05   | SHERWIN WILLIAMS<br>SHERWIN WILLIAMS | PER SPECIFICATION PER SPECIFICATION                     | N/A<br>N/A   | SW 6003<br>SW 6004      | PROPER GRAY<br>MINK  |  | RESTROOMS, FIELD<br>RESTROOMS, ACCENT                             |
| PAINT<br>PAINT                       | PT-06<br>PT-07   | SHERWIN WILLIAMS<br>SHERWIN WILLIAMS | PER SPECIFICATION PER SPECIFICATION                     | N/A<br>N/A   | SW 6386<br>SW 6387      | NAPERY<br>COMPATIBLE CREAM   |  | YELLOW 1 (LIGHT)<br>YELLOW 2 (MID)                                |
| PAINT                                | PT-08            | SHERWIN WILLIAMS                     | PER SPECIFICATION                                       | N/A  | SW 9023                 | DAKOTA WHEAT   |  | YELLOW (DARK)   |
| PAINT<br>PAINT                       | PT-09<br>PT-10   | SHERWIN WILLIAMS<br>SHERWIN WILLIAMS | PER SPECIFICATION PER SPECIFICATION                     | N/A<br>N/A   | SW 7612<br>SW 0041      | MOUNTAIN STREAM<br>DARD HUNTER GREEN   |  | STAFF, ACCENT<br>FIREPLACE, ACCENT                                |
| PAINT                                | PT-11            | SHERWIN WILLIAMS                     | PER SPECIFICATION                                       | N/A  | SW-6804                 | DIGNITY BLUE   |  | ACOUSTIC WALL - BLUE 1  |
| PAINT<br>PAINT                       | PT-12<br>PT-13   | SHERWIN WILLIAMS<br>SHERWIN WILLIAMS | PER SPECIFICATION PER SPECIFICATION                     | N/A<br>N/A   | SW-6803<br>SW-6801      | DANUBE<br>REGALE BLUE  |  | ACOUSTIC WALL - BLUE 2<br>ACOUSTIC WALL - BLUE 3                  |
|                                      | PT-14            | SHERWIN WILLIAMS                     |   | N/A  | SW 6748                 | GREENS   |  | ACOUSTIC WALL - GREEN 1   |
| PAINT<br>PAINT                       | PT-15<br>PT-16   | SHERWIN WILLIAMS<br>SHERWIN WILLIAMS | PER SPECIFICATION PER SPECIFICATION                     | N/A<br>N/A   | SW 6747<br>SW 6745      | ARGYLE<br>LARK GREEN   |  | ACOUSTIC WALL - GREEN 2<br>ACOUSTIC WALL - GREEN 3                |
| PAINT<br>PAINT                       | PT-17<br>PT-18   | SHERWIN WILLIAMS<br>SHERWIN WILLIAMS | PER SPECIFICATION<br>PER SPECIFICATION                  | N/A  | SW 6699<br>SW 6697      | CRISPY GOLD<br>NUGGET  |  | ACOUSTIC WALL - YELLOW 1<br>ACOUSTIC WALL - YELLOW 2              |
| PAINT                                | PT-18<br>PT-19   | SHERWIN WILLIAMS                     | PER SPECIFICATION<br>PER SPECIFICATION                  | N/A<br>N/A   | SW 6695                 | MIDDDAY  |  | ACOUSTIC WALL - YELLOW 2<br>ACOUSTIC WALL - YELLOW 3              |
| PAINT<br>PAINT                       | PT-20<br>PT-21   | SHERWIN WILLIAMS<br>SHERWIN WILLIAMS | PER SPECIFICATION PER SPECIFICATION                     | N/A<br>N/A   | SW 9141<br>SW 9140      | WATERLOO<br>BLUSTERY SKY   |  | ACOUSTIC WALL - GRAY 1<br>ACOUSTIC WALL - GRAY 2                  |
| PAINT                                | PT-22            | SHERWIN WILLIAMS                     | PER SPECIFICATION                                       | N/A  | SW 9140                 | STARDEW  |  | ACOUSTIC WALL - GRAY 3  |
| PAINT<br>TACK BOARD                  | PT-23<br>TB-01   | SHERWIN WILLIAMS<br>KOROSEAL         | PER SPECIFICATION<br>TAC-WALL                           | N/A<br>REFER TO DRAWINGS (STANARD SIZE: 48"W)              | SW 7048                 | URBANE BRONZE<br>QUARRY  |  | HOLLOW METAL DOORS AND FRAMES<br>STAFF OFFICE                     |
| TACK BOARD                           | TB-02            | KOROSEAL                             | TAC-WALL  | REFER TO DRAWINGS (STANARD SIZE: 48"W)                     | 09                      | ONYX   |  | HERITAGE WALL   |
| WALL COVERING<br>BASE                | WC-01            | WOLF GORDON                          | DIGITAL VINYL WALLCOVERING, CLAIR PVC-FREE<br>SUBSTRATE | REFER TO DRAWINGS (STANARD SIZE: 10'-0"H,<br>REPEAT 24"W   | DEPTH OF DOT<br>DDOD632 | SOCEAN   | INSTALL BELOW BASE; STRAIGHT HANG, STRAIGHT MATCH;<br>UTILIZE ADT-01&02 AT CORNER AND EDGE CONDITIONS, REFER<br>TO DETAIL C6/A-522; WORK WITH WG CUSTOMS LAB FOR FINAL<br>SIZE AND SCALE NEEDS; CONTACT NATALIE KNEZEVIC (WOLF<br>GORDON ACCOUNT EXECUTIVE) AT 502-200-3762 OR<br>NATALIE.KNEZEVIC@WOLFGORDON.COM  |   |
| RESILIENT BASE                       | RB-01            | ROPPE                                | RUBBER ROLLED GOODS                                     | 4"H  |                         | 193 BLACK BROWN  | PROVIDE COVE AT CARPET; AND STRAIGHT AT HARD SURFACES  |   |
| RESILIENT BASE                       | RB-02            | ROPPE                                | RUBBER ROLLED GOODS                                     | 4"H  |                         | 175 SLATE  | PROVIDE COVE AT CARPET; AND STRAIGHT AT HARD SURFACES  | 3 IS ACCEPTED.  |
| CARPET TILE (WALK OFF)               |                  |                                      | STEPPIN OUT - ENTRILLE TILE                             | 24" x 24" x .263"  | 5T033                   | STERLING 31557   |  | VESTIBULES<br>CARPET, FIELD (NEUTRAL)                             |
| CARPET TILE<br>CARPET TILE           | CPT-02<br>CPT-03 | SHAW CONTRACT<br>SHAW CONTRACT       | GRADATION<br>GRADATION                                  | .124" x 24" x 24"<br>.124" x 24" x 24"                     | 5T339<br>5T339          | SHADOW 39760           MINT 39327  | QUARTER TURN; STACK BOND<br>QUARTER TURN; STACK BOND   | CARPET, FIELD (NEUTRAL)<br>CARPET, ACCENT (GREEN)                 |
| RESILIENT FLOOR<br>RESILIENT FLOOR   | RF-01<br>RF-02   | MOHAWK GROUP<br>MOHAWK GROUP         | PIVOT POINT ERT: WOOD<br>PIVOT POINT ERT: TEXTILE       | .12" (3MM) THICK; 7" x 48"<br>.12" (3MM) THICK; 7" x 48"   | CO113<br>1446V          | LOTUS - 818<br>RETREAT - 729   | GLUE DOWN PER MANUFACTURER RECOMMENDATIONS<br>GLUE DOWN PER MANUFACTURER RECOMMENDATIONS   | MID GRAY  |
| RESILIENT FLOOR                      |                  |                                      | RENEW RUBBER TILE, SMOOTH FINISH                        | 1/8" THICK x 19-11/16" x 19-11/16"                         | 978                     | R122 NATURAL   | GLUE DOWN PER MANUFACTURERS RECOMMENDATIONS  | BEIGE COLOR   |
| CEILING<br>ACOUSTICAL CEILING        | ACT-01           | ARMSTRONG                            | CANYON  | 24"X24"X3/4"   | 1494                    | STANDARD WHITE   | EDGE TO BE BEVELED TEGULAR 9/16" GRID; GRID FINISH TO BE   |   |
| ACOUSTICAL CEILING                   | ACT-02           | ARMSTRONG                            | OPTIMA  | 24"X72"X3/4"   | 1982                    | STANDARD WHITE   | STANDARD WHITE (WH)<br>EDGE TO BE SQUARE TEGULAR 9/16" GRID; GRID FINISH TO BE   | CONTENT<br>0.75 NRC / 35 CAC / 88% LIGHT REFLECTANCE              |
| WOOD CEILING SYSTEM                  | WDC-01           | ARMSTRONG                            | WOODWORKS LINEAR NOMINAL 4" MODULE - FSC<br>CERTIFIED   | 96 x 3-3/4 x 3/4" (with 3/4" reveal)                       | 6640W1-CRW              | REDUX WOOD WHEAT (CRW); LOW VOC, 20% SHEEN<br>CLEAR TOP COAT   | MATTE BLIZZARD WHITE (ZW)<br>INSTALLATION NOT TO RUN FROM WALL TO WALL- CUT ENDS OF<br>PLANKS TO RECEIVE EDGE BAND EXPOSED ENDS; FIRST AND<br>LAST CARRIERS TO BE NO MORE THAN 4" FROM SIDES OF<br>FLOATING INSTALLATION; PLANKS TO BE STAGGERED, RANDOM<br>JOINTS FOR MONOLITHIC APPEARANCE. APPLY VENEER EDGE<br>BANDING TO MATCH PLANK FACE AT EXPOSED EDGES (DO NOT<br>UTILIZE TRIM AROUND CLOUDS); UTILIZE COMBINATION OF<br>BIOACOUSTIC (BLACK) INFILL PANEL & FACTORY-APPLIED BLACK<br>FLEECE ON EACH PLANK TO COVER REVEALS - REFER TO | ALTERNATE AT SOUTH BAR CEILING                                    |
| MILLWORK/ CASEWORK                   |                  |                                      |   |  |                         |  |  |   |
| PLASTIC LAMINATE<br>PLASTIC LAMINATE | PL-01<br>PL-02   | NEVAMAR<br>ABET LAMINATE             | TEXTURED<br>TEXTURED                                    | REFER TO DRAWINGS<br>REFER TO DRAWINGS                     | S7027-T<br>856          | SMOKY WHITE<br>SEI   |  | PUBLIC - WHITE<br>STAFF - BLUE                                    |
| QUARTZ                               |                  | DALTILE                              | ONE QUARTZ SURFACES - MICRO FLECKS                      | 3/4" OR 1-1/4" x 135-7/8" x 78-3/4"                        | N/A                     | MORNING FROST NQ30 - POLISHED  | ALL CORNERS AND EDGES TO BE MITERED FOR SEAMLESS   |   |
| SOLID SURFACE                        | SSM-01           | US SURFACES                          | LIVING STONE SURFACES                                   | REFER TO DRAWINGS  | L721                    | AVALANCHE  | ALL CORNERS AND EDGES TO BE MITERED FOR SEAMLESS<br>DEPTH  |   |
| TEXTILE                              | TEX-01           | TBD                                  | TBD   | REFER TO DRAWINGS  | TBD                     | TBD  | TBD  | BANQUETTE BACK UPHOLSTERY; APPLY ALLOWANCE FOR                    |
| TEXTILE                              | TEX-02           | TBD                                  | TBD   | REFER TO DRAWINGS  | TBD                     | TBD  | TBD  | \$100 / YARD<br>BANQUETTE SEAT UPHOLSTERY; APPLY ALLOWANCE FOR \$ |
| WOOD                                 | WD-01            | N/A                                  | SELECT WHITE OAK, PLAIN SLICED/FLAT SLICED              | REFER TO DRAWINGS  | N/A                     | MATCH ARCHITECT'S COLOR SELECTION - SIMILAR<br>TO FLUSH WOOD DOORS (ASPIRO SERIES - COCOA<br>BEAN); MATTE CLEAR FINISH (DEWAXED SHELLAC) | REFER TO ELEVATIONS FOR GRAIN DIRECTION; BOOK<br>MATCH/BALANCE MATCH   | / YARD  |
|                                      |                  | •                                    | •   |  |                         | · · · · · · · · · · · · · · · · · · ·  |  | •   |
| WINDOW<br>WINDOW TREATMENT           | WT-01            | LEGRAND                              | MANUAL SHADE  | FIELD VERIFY   |                         | MERMET VERONA DAYLIGHT 3% ECLIPSE  | REFER TO DRAWINGS FOR MOUNTING CONFIGUATION  | BOD: LEGRAND SOLARFECTIVE TS SERIES MANUAL SHADE                  |



OF ART OR FUNITURE - EXCEPT THAT WHERE THE WALL SEGMENT IS LESS THAN 24" WIDE, CENTER THE DEVICES AS DETAILED.

## FINISH SCHEDULE

## STANDARD-DEVICE MOUNTING GUIDELINES



# INTERIOR PARTITION TYPES

#### \* FIRE RATING AND ACOUSTICAL ATTENUATION WHEN REQUIRED BY PARTITION SYMBOL

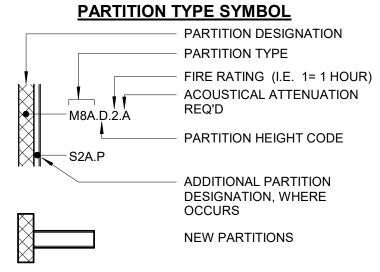
REFER TO WALL SECTION FOR CONSTRUCTION WS

| S1FA | 1 1/2" METAL FURRING WITH (1) LAYER<br>5/8" GYPSUM WALL BOARD ONE SIDE  |                      |
|------|---|----------------------|
| S3A  | 3 5/8" METAL STUDS WITH (1) LAYER 5/8"<br>GYPSUM WALL BOARD EACH SIDE<br>* 1 HR RATED UL419<br>* ACOUSTIC ATTEN. COMPONENTS<br>STC-45   | 4 7/8"               |
| S3B  | 3 5/8" METAL STUDS WITH (2) LAYERS 5/8"<br>TYPE X GYPSUM WALL BOARD EACH SIDE<br>* 2 HR RATED U419<br>* ACOUSTIC ATTEN. COMPONENTS<br>STC-50  | e 118                |
| S3C  | 3 5/8" METAL STUDS WITH (1) LAYER 5/8"<br>GYPSUM WALL BOARD ONE SIDE  |                      |
| S3L  | 3 5/8" METAL STUDS WITH (2) LAYERS 5/8"<br>GYPSUM WALL BOARD ON ONE SIDE AND (1)<br>LAYER 5/8" GYPSUM WALL BOARD ON 1/2"<br>RESILIENT METAL CHANNEL ON THE OTHER<br>* ACOUSTIC ATTEN. COMPONENTS STC-57 | <b>o</b><br><b>J</b> |
| S4Y  | 4" METAL SHAFT WALL STUDS WITH (2)<br>LAYERS 5/8" GYPSUM WALL BOARD ONE<br>SIDE AND 1" GYPSUM SHAFT LINER<br>* 2 HR RATED U417<br>* ACOUSTIC ATTEN. COMPONENTS<br>STC-39                                | 2 1/4<br>2 1/4       |
| S6A  | 6" METAL STUDS WITH (1) LAYER 5/8"<br>GYPSUM WALL BOARD EACH SIDE<br>* ACOUSTIC ATTEN. COMPONENTS<br>STC-44   | 7 1/4"               |
| F6N  | 6" METAL STUD FRAMING, LOAD-BEARING,<br>WITH (1) LAYER 5/8" GYPSUM BOARD EACH<br>SIDE<br>* ACOUSTIC ATTEN. COMPONENTS STC-32  | 7 114"               |
| F6C  | 6" COLD FORMED METAL FRAMING,<br>LOAD-BEARING, WITH (1) LAYER 5/8" GYPSUM<br>BOARD ONE SIDE<br>* ACOUSTIC ATTEN. COMPONENTS STC-32  | 6 5/8"               |

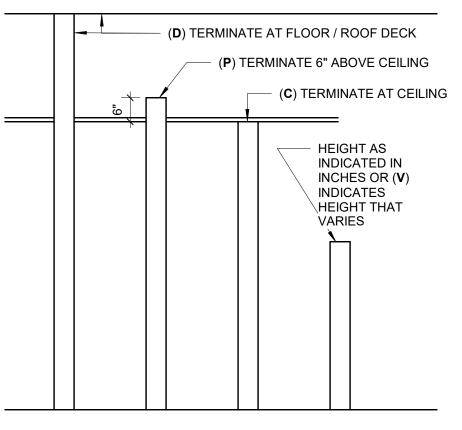
## **INTERIOR PARTITION NOTES**

- A. ALL WALLS ARE TYPE S3A.D.A UNLESS NOTED OTHERWISE B. PARTITION SYMBOLS TYPICALLY APPEAR ON THE LARGEST SCALE FLOOR PLANS. IF A WALL DOES NOT HAVE A PARTITION SYMBOL, PLEASE CONSULT ARCHITECT.
- C. REFER TO FINISH AND CEILING PLANS FOR WALL FINISH, WALL BASE, AND CEILING INFORMATION.
- D. REFER TO WALL SECTIONS FOR EXTERIOR WALL CONSTRUCTION.
- E. PROVIDE MOLD AND MOISTURE RESISTANT GYPSUM BOARD IN ALL ROOMS CONTAINING OPERABLE PLUMBING
- FIXTURES AND WITHIN 4'-0" OF DRINKING FOUNTAINS / WATER COOLERS, UNLESS NOTED OTHERWISE. F. PROVIDE LATERAL BRACING AT 48" ON CENTER FOR NON-STRUCTURAL METAL FRAMED PARTITIONS WHICH EXTEND ABOVE THE CEILING UNLESS NOTED OTHERWISE. LATERAL
- BRACING NOT REQUIRED FOR PARTITIONS THAT EXTEND TO THE DECK ABOVE UNLESS NOTED OTHERWISE. G. PROVIDE FIRE RESISTIVE RATED GYPSUM BOARD AT ALL RATED ASSEMBLIES TO MEET ASSEMBLY REQUIREMENTS.
- H. PROVIDE FIRE RESISTIVE JOINT SYSTEMS EQUAL TO WALL RATING AT ALL PENETRATIONS AND AT HEAD / FLOOR INTERSECTIONS WITH RATED ASSEMBLIES.
- I. PROVIDE ACOUSTICAL SEALANT AT WALL SILL, HEAD, PENETRATIONS AND ADDITIONAL SPECIFIED SOUND ATTENUATION COMPONENTS AT SOUND RATED WALLS.
- J. PROVIDE SPECIFIED TILE BACKER BOARD AT ALL WALLS INDICATED TO HAVE CERAMIC TILE, REFER TO FINISH PLANS.
- K. ISOLATE NON-LOAD-BEARING STUD FRAMING FROM BUILDING STRUCTURE TO PREVENT TRANSFER OF VERTICAL LOADS WHILE PROVIDING LATERAL SUPPORT AS
- SPECIFIED. L. METAL STUD SPACING SHALL BE 16" ON CENTER MAXIMUM UNLESS OTHERWISE REQUIRED BY DELEGATED DESIGN OR NOTED OTHERWISE.

# INTERIOR PARTITION LEGEND



## **INTERIOR PARTITION HEIGHT CODES**



| SPECIALITY EQUIPMENT SCHEDULE |      |  |              |                 |       |
|-------------------------------|------|--|--------------|-----------------|-------|
| Type<br>Mark                  | Mark | Description  | Manufacturer | Model           | Count |
| E101                          | OFOI | LAMINATOR, CTOP  |              | N/A             | 1     |
| E102                          | OFOI | PAPER CUTTER, MANUAL   |              | N/A             | 1     |
| E103                          | OFOI | CARD CUTTER  |              | N/A             | 1     |
| E104                          | OFOI | DESK COPY/PRINTER  |              | N/A             | 1     |
| E110                          | CFCI | MICROWAVE 13-5/8"H x 24-1/8"W x 19-1/4"D (WHITE)             | GE           | JES2051DNW<br>W | 2     |
| E111                          | CFCI | TOP FREEZER REFRIGERATOR<br>(65-7/8"H x 29-3/4"W x 33-1/2"D) | WHIRLPOOL    | WRT318FMDW      | 1     |
| E112                          | OFOI | K-SELECT COFFEE BREWER (12.5"H x<br>9.2"W x 11.6"D)          | KEURIG       | K-SELECT        | 1     |

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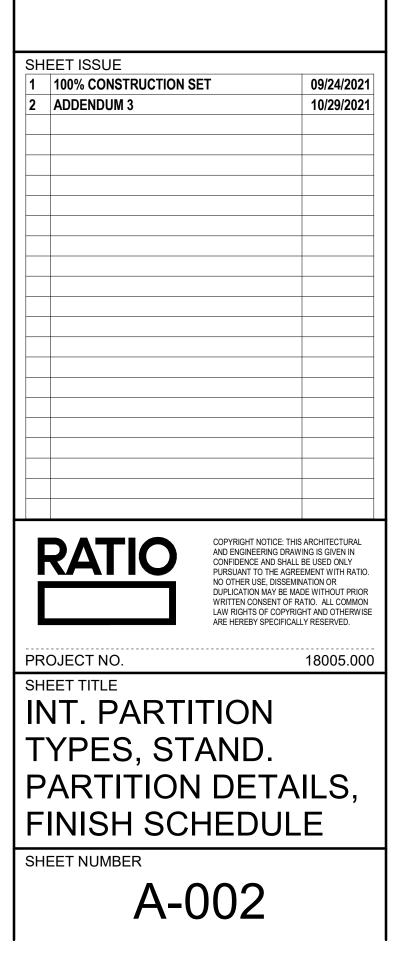
Structural Engineer LYNCH, HARRISON & BRUMLEVE, INC. 550 Virginia Avenue Indianapolis, Indiana 46203

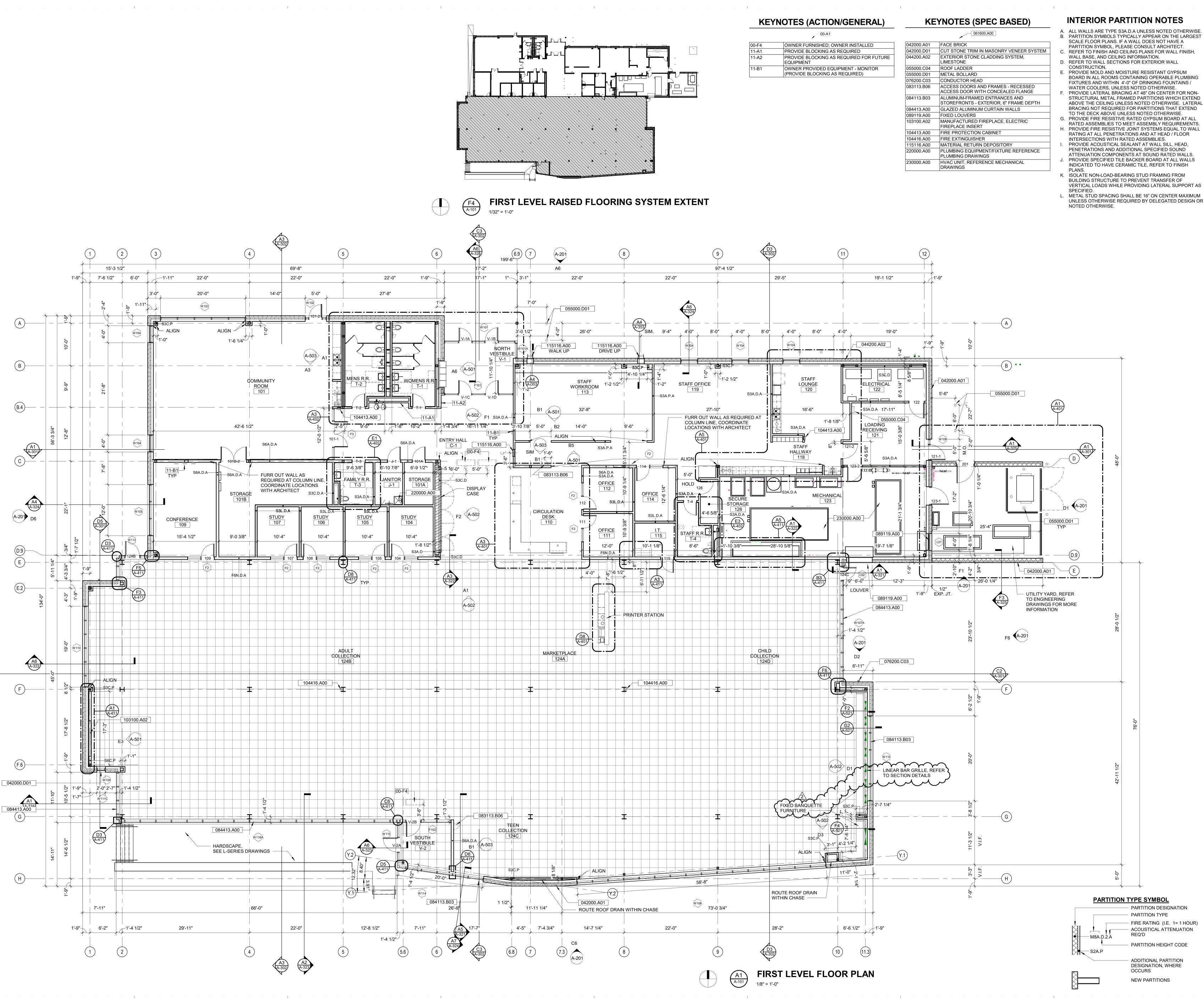
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| 042000.A01 | FACE BRICK  |
|------------|---|
| 042000.D01 | CUT STONE TRIM IN MASONRY VENEER SYSTEM                                 |
| 044200.A02 | EXTERIOR STONE CLADDING SYSTEM,<br>LIMESTONE                            |
| 055000.C04 | ROOF LADDER   |
| )55000.D01 | METAL BOLLARD   |
| 076200.C03 | CONDUCTOR HEAD  |
| 083113.B06 | ACCESS DOORS AND FRAMES - RECESSED<br>ACCESS DOOR WITH CONCEALED FLANGE |
| 084113.B03 | ALUMINUM-FRAMED ENTRANCES AND<br>STOREFRONTS - EXTERIOR, 6" FRAME DEPTH |
| 084413.A00 | GLAZED ALUMINUM CURTAIN WALLS   |
| 089119.A00 | FIXED LOUVERS   |
| 103100.A02 | MANUFACTURED FIREPLACE, ELECTRIC<br>FIREPLACE INSERT                    |
| 104413.A00 | FIRE PROTECTION CABINET   |
| 104416.A00 | FIRE EXTINGUISHER   |
| 115116.A00 | MATERIAL RETURN DEPOSITORY  |
| 220000.A00 | PLUMBING EQUIPMENT/FIXTURE REFERENCE<br>PLUMBING DRAWINGS               |
| 230000.A00 | HVAC UNIT, REFERENCE MECHANICAL   |

- BOARD IN ALL ROOMS CONTAINING OPERABLE PLUMBING FIXTURES AND WITHIN 4'-0" OF DRINKING FOUNTAINS /
- STRUCTURAL METAL FRAMED PARTITIONS WHICH EXTEND ABOVE THE CEILING UNLESS NOTED OTHERWISE. LATERAL BRACING NOT REQUIRED FOR PARTITIONS THAT EXTEND
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- L. METAL STUD SPACING SHALL BE 16" ON CENTER MAXIMUM UNLESS OTHERWISE REQUIRED BY DELEGATED DESIGN OR

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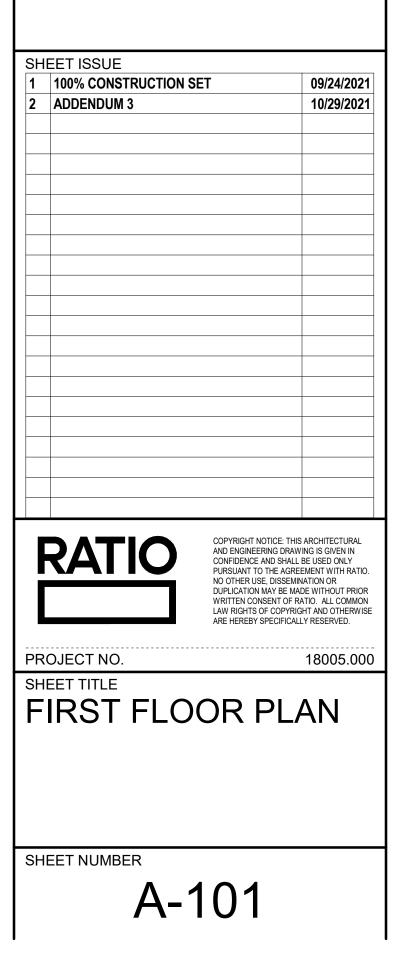
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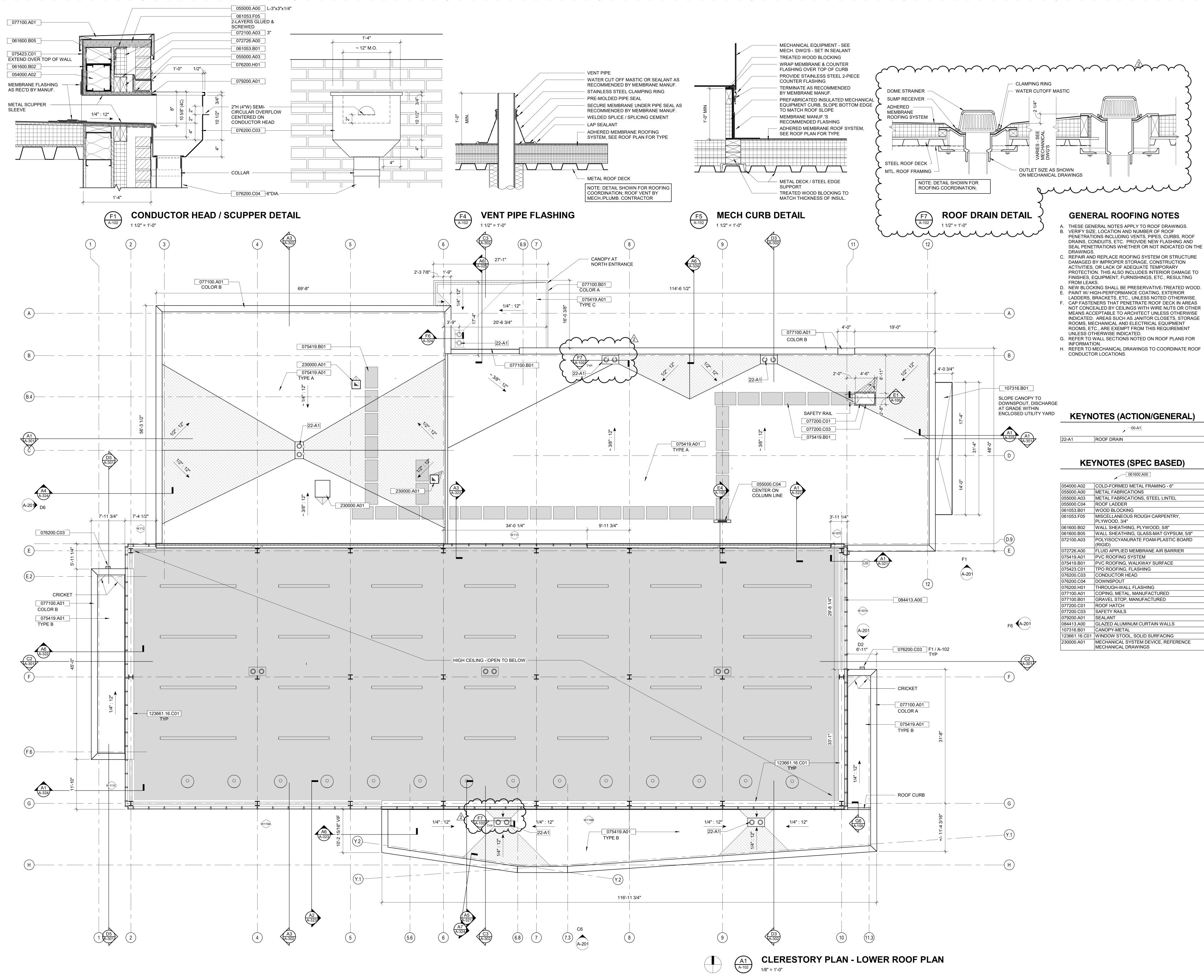
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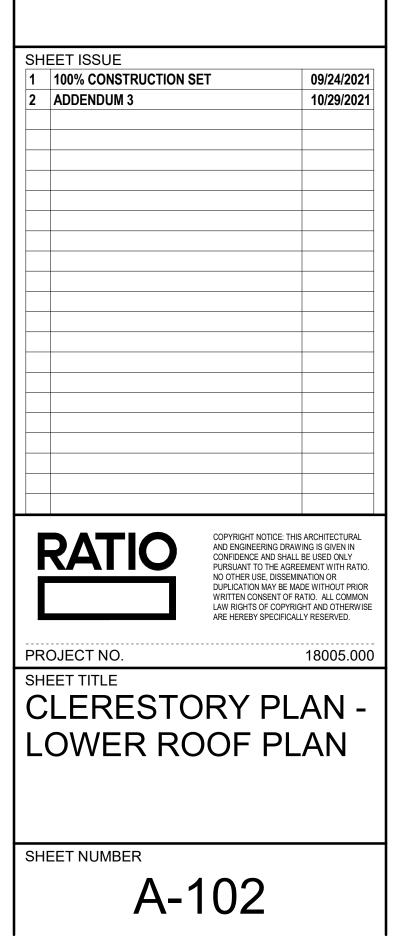
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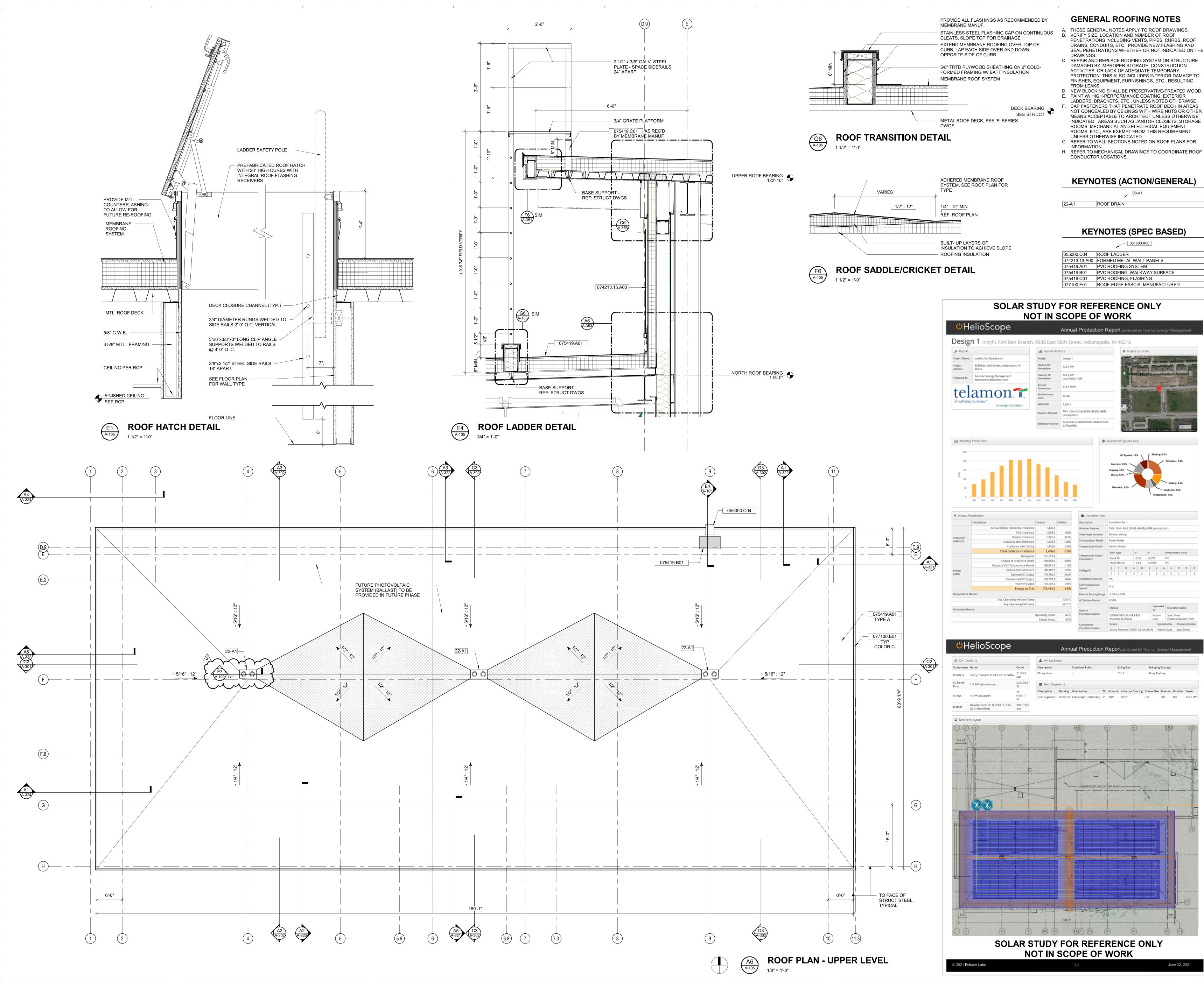
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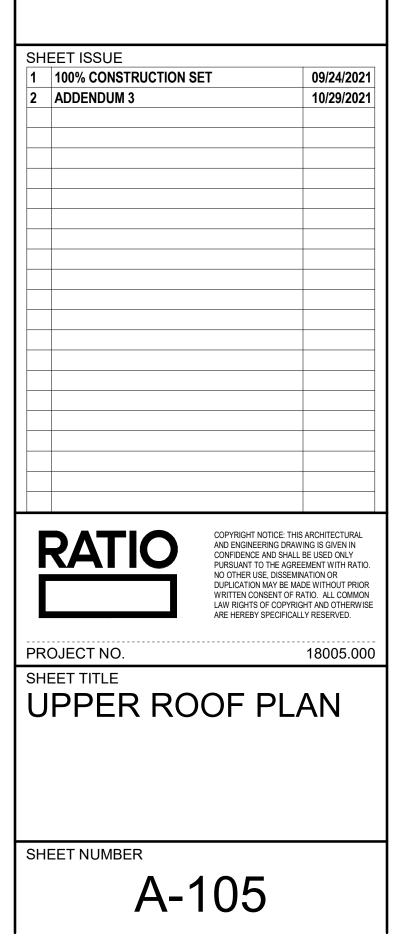
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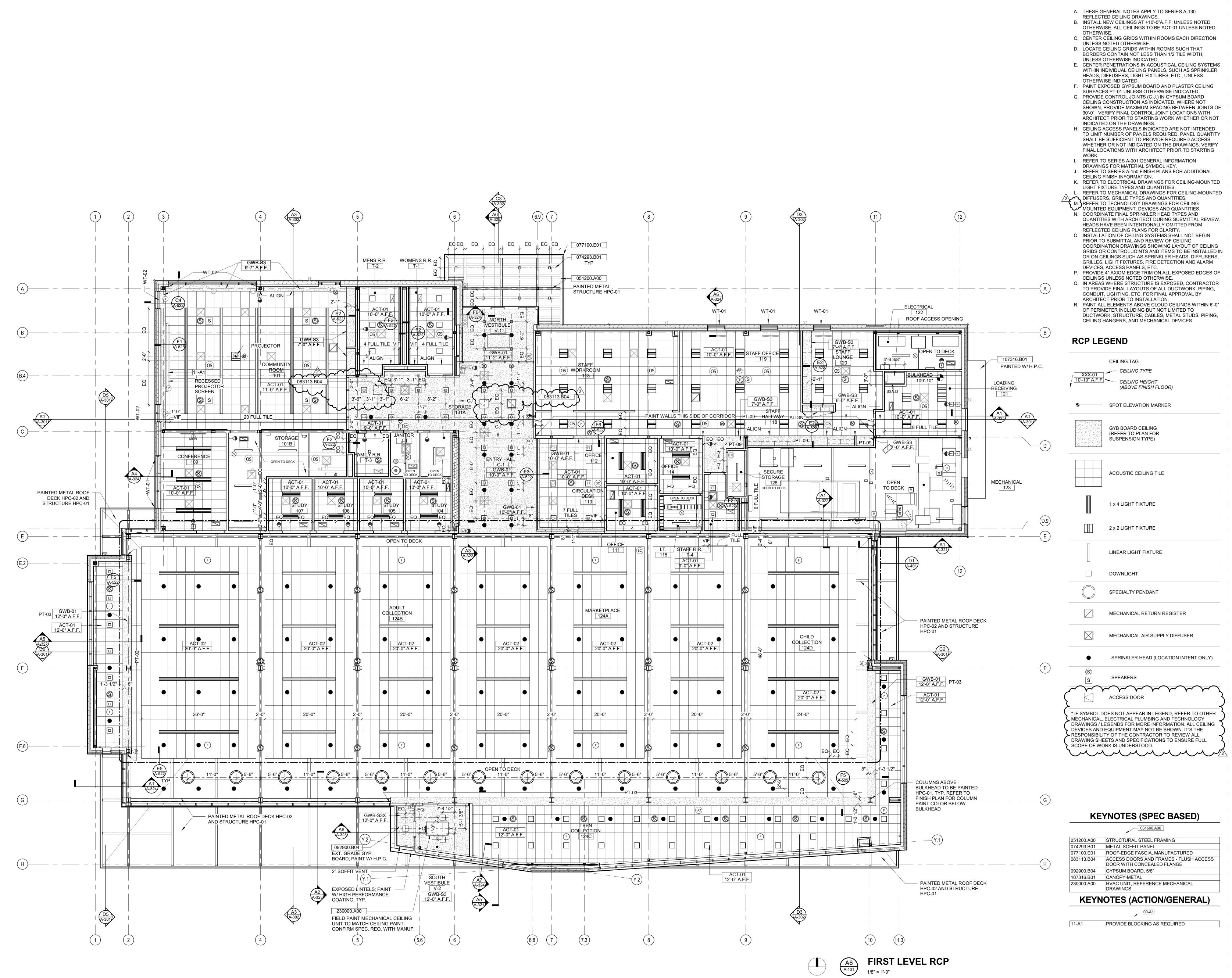
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## **GENERAL CEILING PLAN NOTES**

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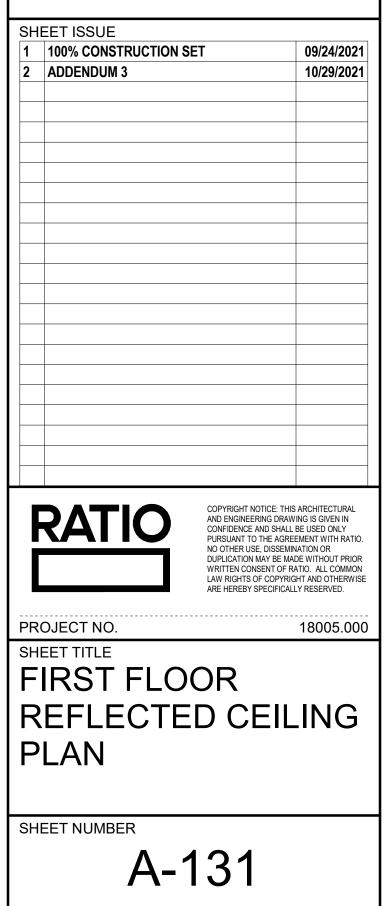
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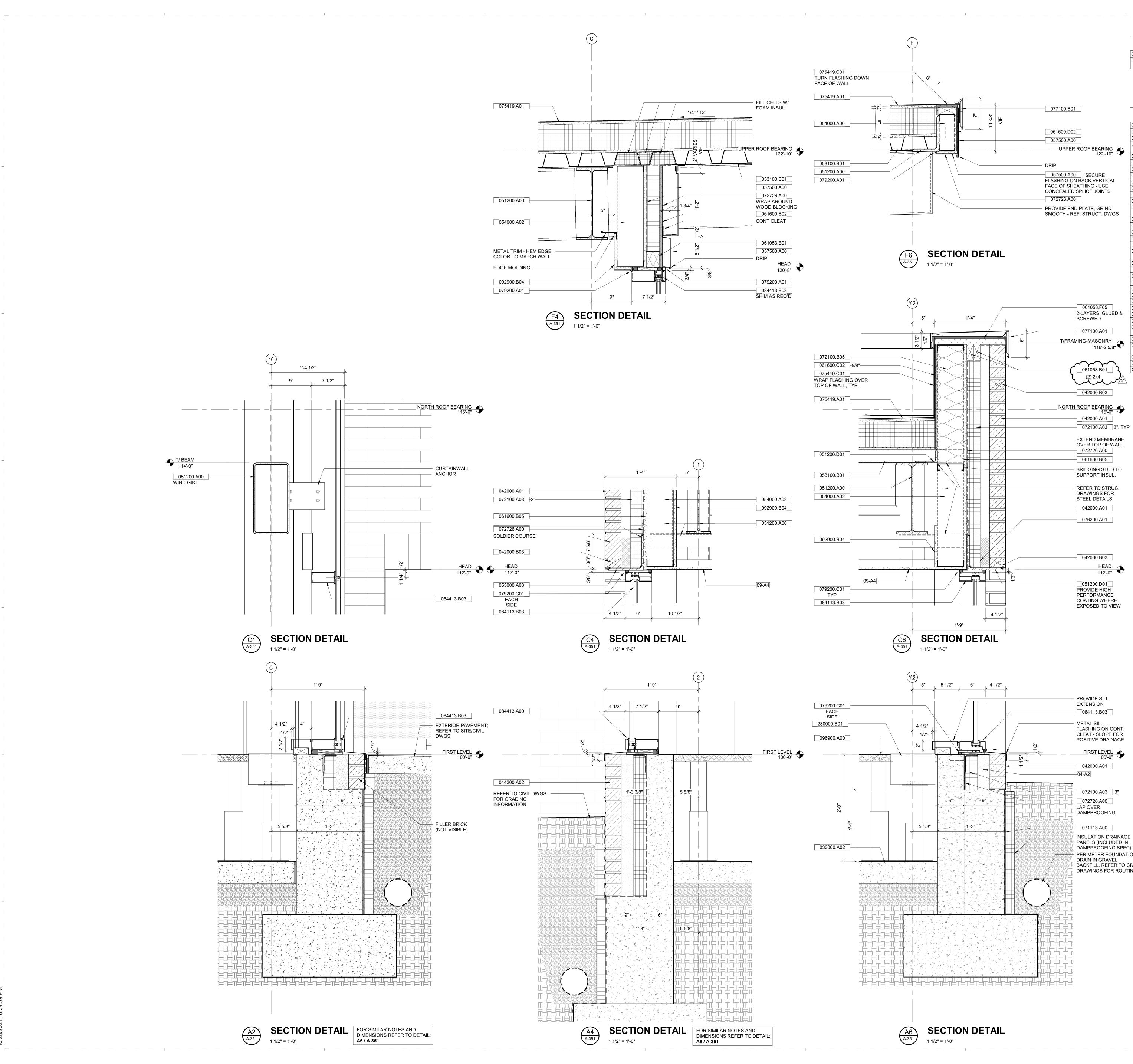
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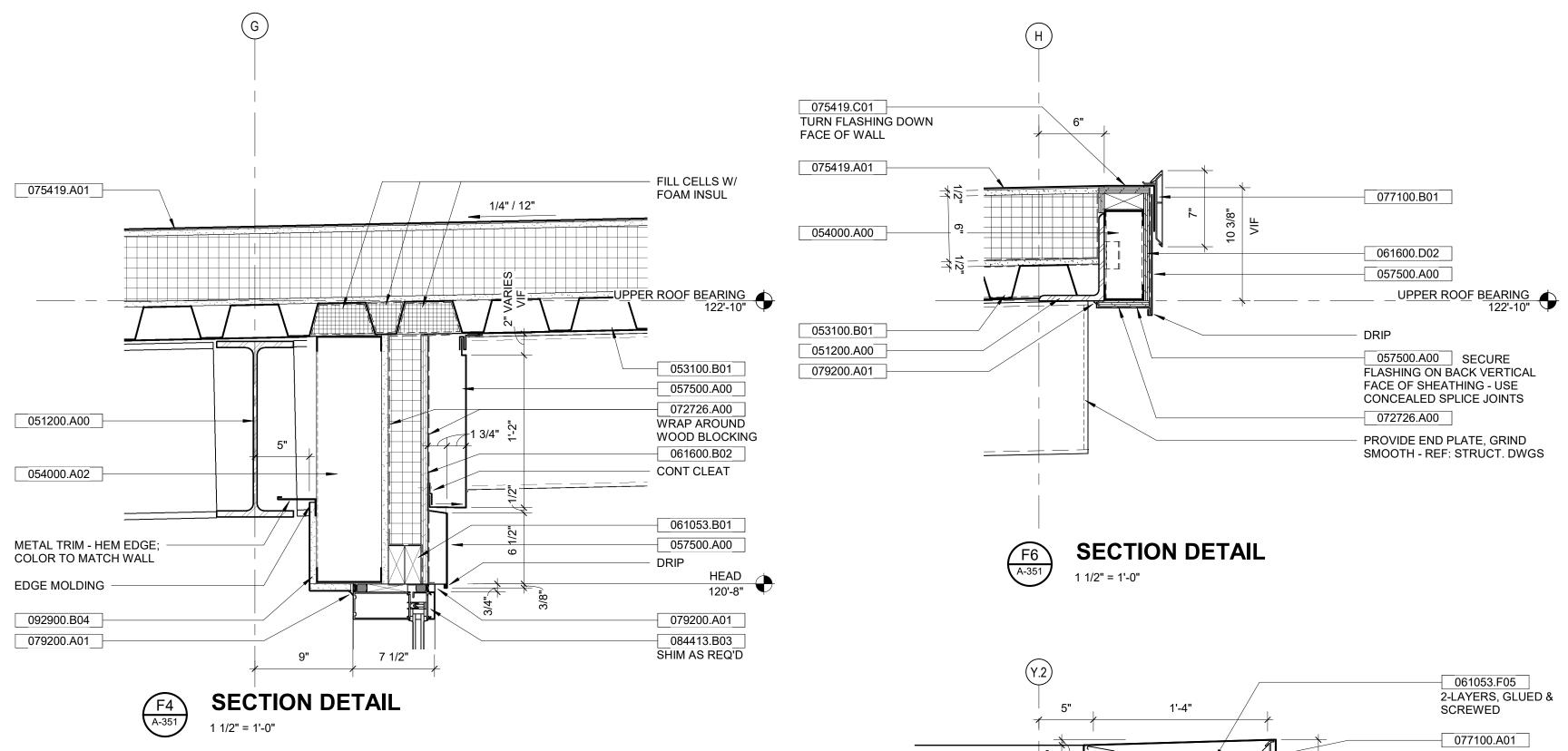
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-00-A1

| )4-A2 | GROUT SOLID BELOW FLASHING                           |
|-------|--|
| -     | CEILING, REFER TO REFLECTED CEILING PLAN<br>FOR TYPE |

## **KEYNOTES (SPEC BASED)**

|            | 061600.A00  |
|------------|---|
| 033000.A02 | CAST-IN-PLACE CONCRETE SLAB   |
| 042000.A01 | FACE BRICK  |
| 042000.B03 | MASONRY VENEER, WEEP/VENT   |
| 044200.A02 | EXTERIOR STONE CLADDING SYSTEM,<br>LIMESTONE                            |
| 051200.A00 | STRUCTURAL STEEL FRAMING  |
| 051200.D01 | STRUCTURAL STEEL FRAMING, ANGLE   |
| 053100.B01 | ROOF DECK   |
| 054000.A00 | COLD-FORMED METAL FRAMING   |
| 054000.A02 | COLD-FORMED METAL FRAMING - 6"  |
| 055000.A03 | METAL FABRICATIONS, STEEL LINTEL  |
| 057500.A00 | DECORATIVE FORMED METAL   |
| 061053.B01 | WOOD BLOCKING   |
| 061053.F05 | MISCELLANEOUS ROUGH CARPENTRY,<br>PLYWOOD, 3/4"                         |
| 061600.B02 | WALL SHEATHING, PLYWOOD, 5/8"   |
| 061600.B05 | WALL SHEATHING, GLASS-MAT GYPSUM, 5/8"                                  |
| 061600.C02 | ROOF SHEATHING, PLYWOOD, 1/2"   |
| 061600.D02 | PARAPET SHEATHING, PLYWOOD, 1/2"  |
| 071113.A00 | BITUMINOUS DAMPPROOFING   |
| 072100.A03 | POLYISOCYANURATE FOAM-PLASTIC BOARD<br>(RIGID)                          |
| 072100.B05 | GLASS-FIBER BLANKET, R-19 (BATT)  |
| 072726.A00 | FLUID APPLIED MEMBRANE AIR BARRIER                                      |
| 075419.A01 | PVC ROOFING SYSTEM  |
| 075419.C01 | PVC ROOFING, FLASHING   |
| 076200.A01 | SHEET METAL FLASHING AND TRIM   |
| 076200.H01 | THROUGH-WALL FLASHING   |
| 077100.A01 | COPING, METAL, MANUFACTURED   |
| 077100.B01 | GRAVEL STOP, MANUFACTURED   |
| 079200.A01 | SEALANT   |
| 079200.C01 | BACKER ROD AND SEALANT  |
| 084113.B03 | ALUMINUM-FRAMED ENTRANCES AND<br>STOREFRONTS - EXTERIOR, 6" FRAME DEPTH |
| 084413.A00 | GLAZED ALUMINUM CURTAIN WALLS   |
| 084413.B03 | GLAZED ALUMINUM CURTAIN WALLS - 7 1/2"<br>FRAME DEPTH                   |
| 092900.B04 | GYPSUM BOARD, 5/8"  |
| 096900.A00 | ACCESS FLOORING SYSTEM  |

096900.A00ACCESS FLOORING SYSTEM230000.B01DIFFUSER, REFERENCE MECHANICAL DRAWINGS

PERIMETER FOUNDATION DRAIN IN GRAVEL BACKFILL, REFER TO CIVIL DRAWINGS FOR ROUTING

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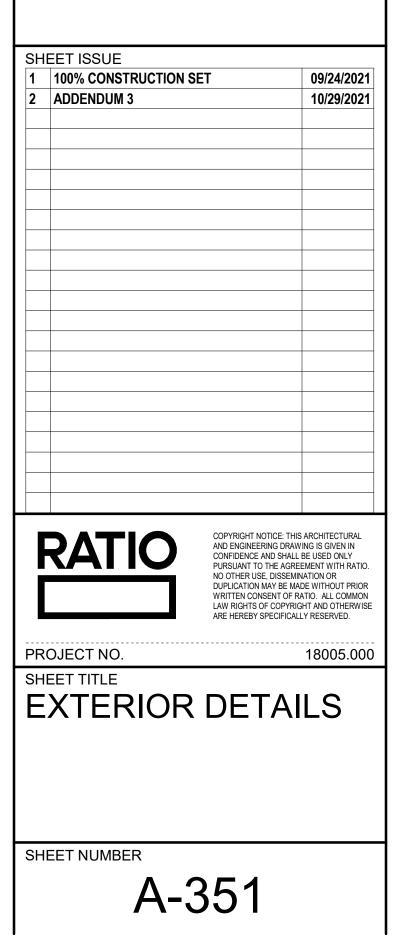
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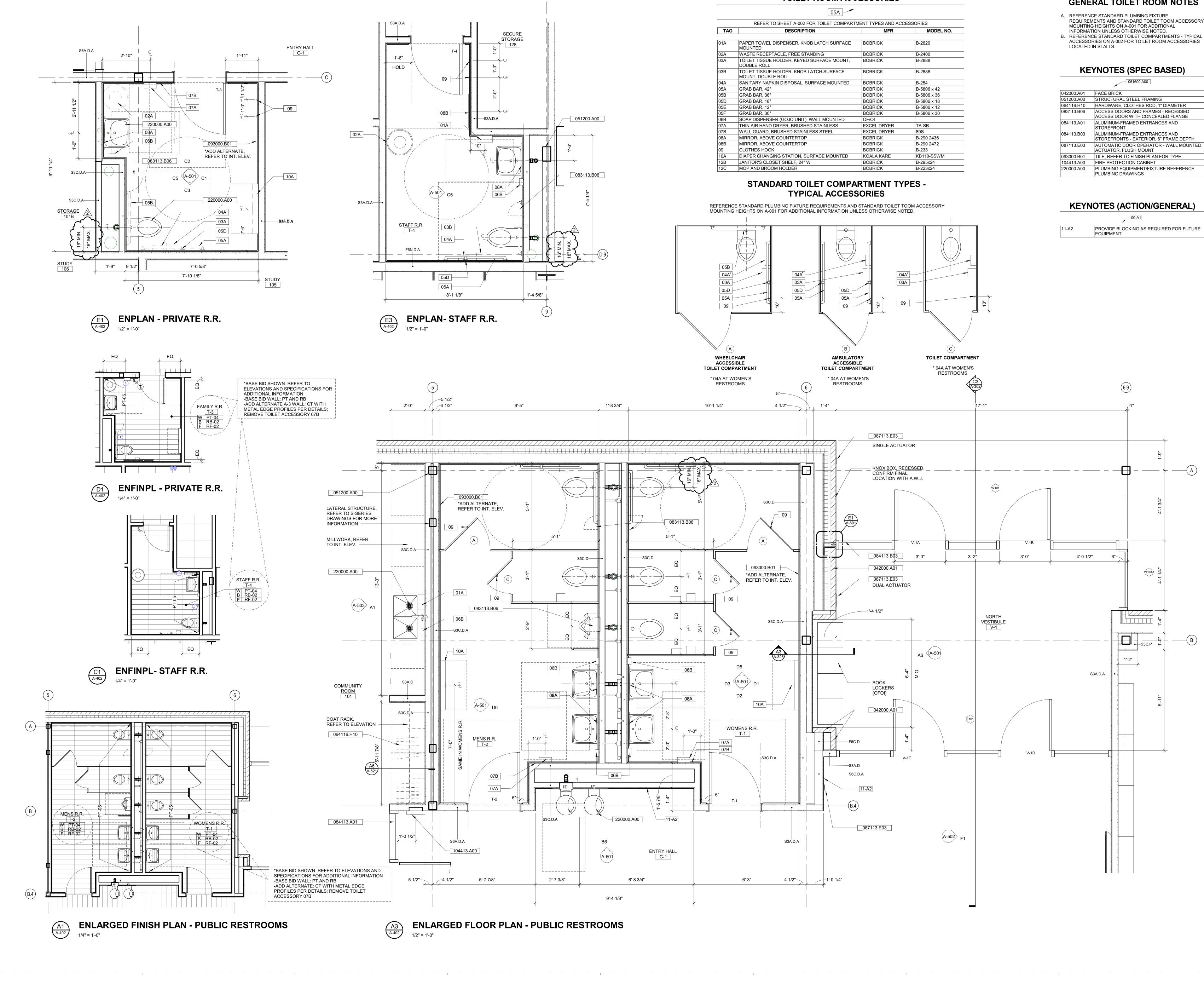
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## **TOILET ROOM ACCESSORIES**

| USA                           |                     |             |
|-------------------------------|---------------------|-------------|
| EET A-002 FOR TOILET COMPARTM | ENT TYPES AND ACCES | SORIES      |
| DESCRIPTION                   | MFR                 | MODEL NO.   |
|                               |                     |             |
| INSER, KNOB LATCH SURFACE     | BOBRICK             | B-2620      |
| , FREE STANDING               | BOBRICK             | B-2400      |
| ER, KEYED SURFACE MOUNT,      | BOBRICK             | B-2888      |
| ER, KNOB LATCH SURFACE<br>L   | BOBRICK             | B-2888      |
| SPOSAL, SURFACE MOUNTED       | BOBRICK             | B-254       |
|                               | BOBRICK             | B-5806 x 42 |
|                               | BOBRICK             | B-5806 x 36 |
|                               | BOBRICK             | B-5806 x 18 |
|                               | BOBRICK             | B-5806 x 12 |
|                               | BOBRICK             | B-5806 x 30 |
| OJO UNIT), WALL MOUNTED       | OF/OI               |             |
| R, BRUSHED STAINLESS          | EXCEL DRYER         | TA-SB       |
| IED STAINLESS STEEL           | EXCEL DRYER         | 89S         |
| INTERTOP                      | BOBRICK             | B-290 2436  |
| INTERTOP                      | BOBRICK             | B-290 2472  |
|                               | BOBRICK             | B-233       |
| TATION, SURFACE MOUNTED       | KOALA KARE          | KB110-SSWM  |
| HELF, 24" W                   | BOBRICK             | B-295x24    |
| LDER                          | BOBRICK             | B-223x24    |
|                               |                     |             |

## **GENERAL TOILET ROOM NOTES**

- ACCESSORIES ON A-002 FOR TOILET ROOM ACCESSORIES

| 042000.A01 | FACE BRICK  |
|------------|---|
| 051200.A00 | STRUCTURAL STEEL FRAMING  |
| 064116.H10 | HARDWARE, CLOTHES ROD, 1" DIAMETER                                      |
| 083113.B06 | ACCESS DOORS AND FRAMES - RECESSED<br>ACCESS DOOR WITH CONCEALED FLANGE |
| 084113.A01 | ALUMINUM-FRAMED ENTRANCES AND<br>STOREFRONT                             |
| 084113.B03 | ALUMINUM-FRAMED ENTRANCES AND<br>STOREFRONTS - EXTERIOR, 6" FRAME DEPTH |
| 087113.E03 | AUTOMATIC DOOR OPERATOR - WALL MOUNTED<br>ACTUATOR, FLUSH MOUNT         |
| 093000.B01 | TILE, REFER TO FINISH PLAN FOR TYPE                                     |
| 104413.A00 | FIRE PROTECTION CABINET   |
| 220000.A00 | PLUMBING EQUIPMENT/FIXTURE REFERENCE<br>PLUMBING DRAWINGS               |

|       | - UU-A1  |
|-------|--|
| 11-A2 | PROVIDE BLOCKING AS REQUIRED FOR FUTURE<br>EQUIPMENT |

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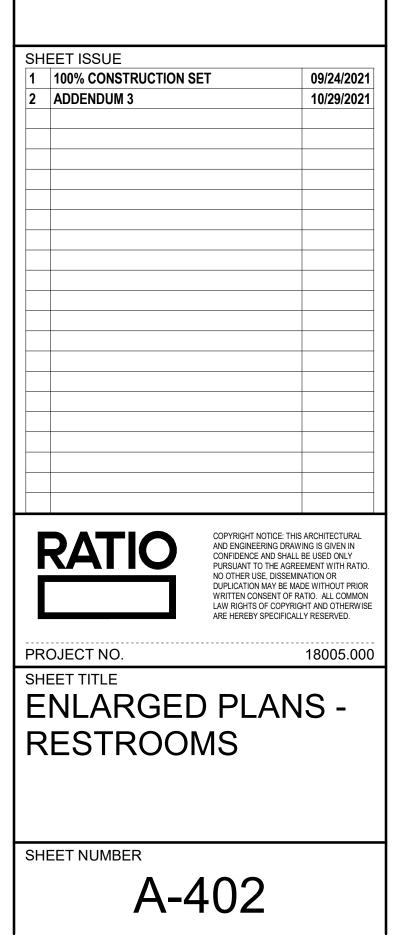
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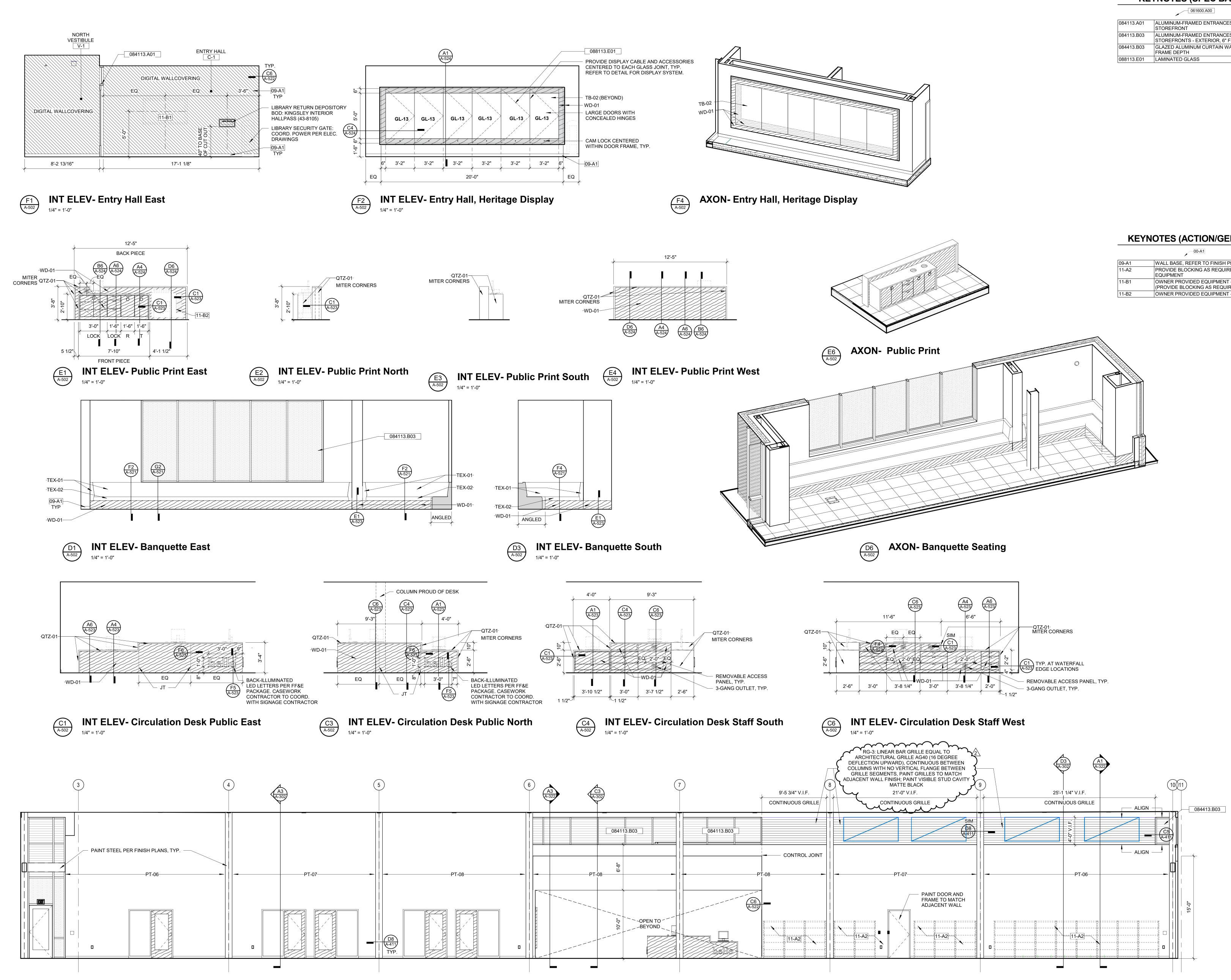
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INT ELEV- South Bar North (Feature Wall) 3/16" = 1'-0"



## **KEYNOTES (SPEC BASED)**

|            | ·   |
|------------|---|
| 084113.A01 | ALUMINUM-FRAMED ENTRANCES AND<br>STOREFRONT                             |
|            | ALUMINUM-FRAMED ENTRANCES AND<br>STOREFRONTS - EXTERIOR, 6" FRAME DEPTH |
| 084413.B03 | GLAZED ALUMINUM CURTAIN WALLS - 7 1/2"<br>FRAME DEPTH                   |
| 088113.E01 | LAMINATED GLASS   |

## **KEYNOTES (ACTION/GENERAL)**

| 09-A1 | WALL BASE, REFER TO FINISH PLAN FOR TYPE                             |
|-------|--|
| 11-A2 | PROVIDE BLOCKING AS REQUIRED FOR FUTURE<br>EQUIPMENT                 |
| 11-B1 | OWNER PROVIDED EQUIPMENT - MONITOR<br>(PROVIDE BLOCKING AS REQUIRED) |
| 11-B2 | OWNER PROVIDED EQUIPMENT - COPIER                                    |

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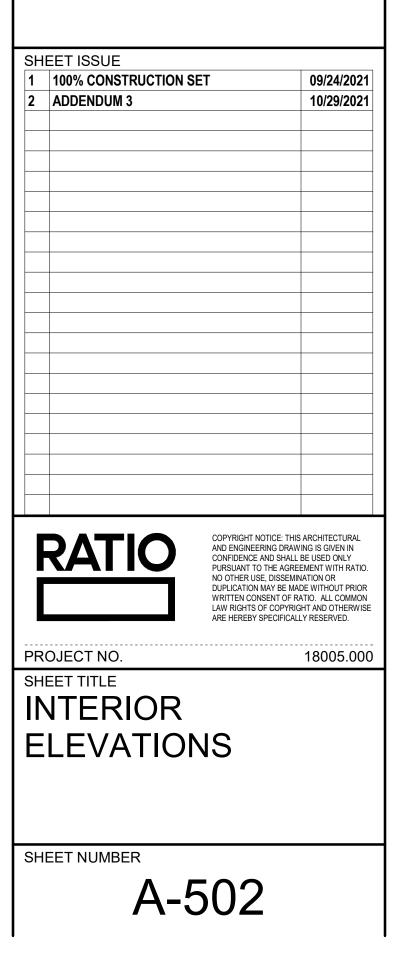
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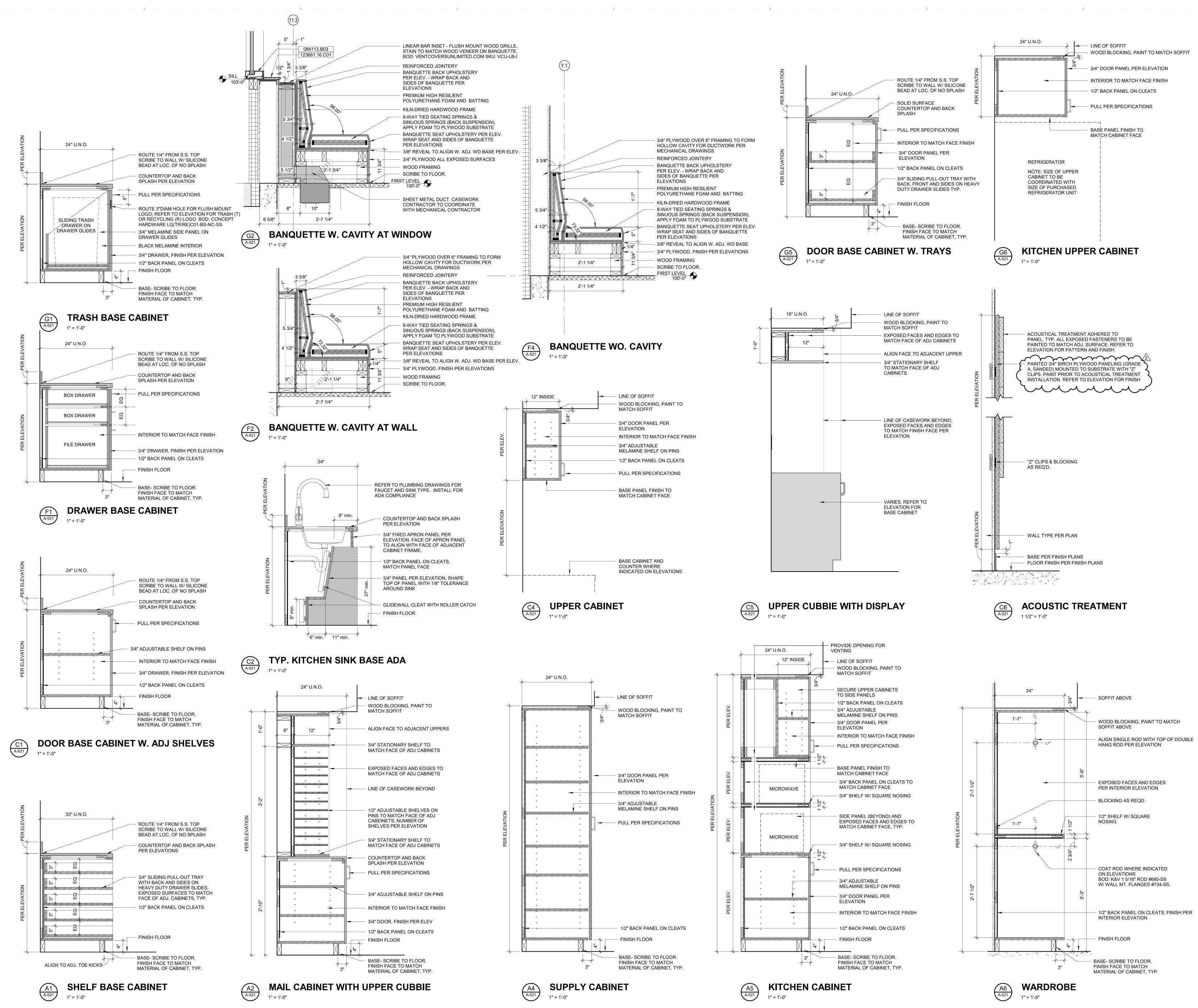
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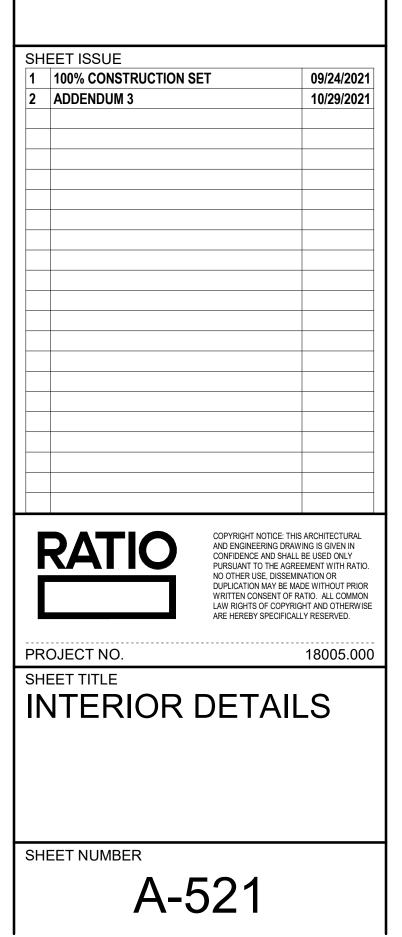
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**—** — —

| LIGHT             | ING SYMBOLS:  | POWE  | R SYMBOLS:   | SIGN               | AL/COMMUNICATIONS:   | <u>GENERAL S</u> | SYMBOLS:   |
|-------------------|---|---|--|--------------------|--|------------------|------------|
| 0                 | CEILING MOUNTED LIGHT FIXTURE   | ÷   | DUPLEX RECEPTACLE                                      | ▼                  | VOICE JACK   |                  | NEW        |
|                   | LINEAR LIGHT FIXTURE  |   | "SPECIAL" RECEPTACLE-<br>TYPE AS NOTED ON THE DRAWINGS | $\bigtriangledown$ | DATA JACK  |                  | EXISTING   |
|                   | ROUND DOWNLIGHT TYPE LIGHT FIXTURE  | $\ominus$   | SIMPLEX RECEPTACLE                                     | $\mathbf{\nabla}$  | DATA/VOICE JACK  |                  | DEMOLITION |
|                   | SQUARE DOWNLIGHT TYPE LIGHT FIXTURE   | ŧ   | QUADRAPLEX RECEPTACLE                                  |                    | BELOW THE CEILING DATA ONLY JACK<br>FOR WIRELESS   |                  | PLAN NOTE  |
| -\$-              | ROUND PENDANT TYPE LIGHT FIXTURE  | ŧ   | DOUBLE DUPLEX RECEPTACLE                               |                    | ABOVE THE CEILING DATA ONLY JACK FOR<br>WIRELESS   |                  |            |
|                   | SQUARE PENDANT TYPE LIGHT FIXTURE   | 0   | JUNCTION BOX   | $\mathbb{V}$       |  |                  |            |
| Ă                 | WALL MOUNTED SCONCE TYPE LIGHT FIXTURE  | $\odot$   | FLOOR BOX  |                    | VOLUME CONTROL<br>CLOCK  |                  |            |
|                   |   | $\wedge$  | MOTOR  |                    |  |                  |            |
| 2                 | CELING MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROWS   |   | DISCONNECT SWITCH                                      | 4                  | WALL MOUNTED SPEAKER   |                  |            |
| { ∞               | CELING MOUNTED EXIT LIGHT WITH SINGLE FACE (SHADED AREA)  |   | COMBINATION CONTROLLER                                 | S                  | CEILING MOUNTED SPEAKER  |                  |            |
| { ∞               | CELING MOUNTED EXIT LIGHT WITH DOUBLE FACE (SHADED AREA)  |   | (STARTER/DISCONNECT SWITCH)                            | ₿                  | HEAT DETECTOR  |                  |            |
|                   | WALL MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROWS   | 0   | PUSH BUTTON  | \$                 | SMOKE DETECTOR   |                  |            |
| <u>~</u>          |   | т   |  | <b>F</b>           | FIRE ALARM MANUAL PULL STATION   |                  |            |
| 0                 | POLE TYPE LIGHT FIXTURE WITH POST TOP   | \$'   | MANUAL CONTROLLER WITH THERMAL OVERLOADS               | -E                 | FIRE ALARM AUDIO/VISUAL  |                  |            |
| $\bigcirc$        | ROUND BOLLARD TYPE LIGHT FIXTURE  | Τ   | TRANSFORMER  | -EC                | EXISTING FIRE ALARM AUDIO/VISUAL   |                  |            |
| _                 |   | VZZ2  | PANEL, SEE DRAWINGS AND SPECIFICATIONS                 | $\rightarrow$      | FIRE ALARM VISUAL ONLY   |                  |            |
|                   | SQUARE BOLLARD TYPE LIGHT FIXTURE   |   | PANEL, SEE DRAWINGS AND SPECIFICATIONS                 | ®                  | BELL   |                  |            |
| $\bigcirc$        | IN-GRADE TYPE LIGHT FIXTURE   |   |  | FS                 | SPRINKLER FLOW SWITCH  |                  |            |
|                   | SQUARE HIGH-BAY/LOW-BAY LIGHT FIXTURE   | <pre>/ XX-XXX</pre>   | PANEL IDENTIFICATION                                   | OS&Y               | SPRINKLER SUPERVISED SWITCH  |                  |            |
| $\bigcirc$        | ROUND HIGH-BAY/LOW-BAY LIGHT FIXTURE  | WIRIN   | IG:  | С                  | CAMERA   |                  |            |
|                   | EMERGENCY WALL MOUNT LIGHT FIXTURE  |   |  | C                  | WALL MOUNTED CAMERA  |                  |            |
|                   | EMERGENCY CEILING MOUNT LIGHT FIXTURE   | 0   | PHASE WIRE<br>→ TYPICAL CONDUIT                        | MD                 | MOTION DETECTOR  |                  |            |
|                   |   |   |  | MD                 | WALL MOUNTED MOTION DETECTOR   |                  |            |
| 6///              | HATCHING INDICATES EMERGENCY FOR ANY<br>OF THE ABOVE LIGHT FIXTURE TYPES.   | RACEWA'<br>HOMERU   | Y └NEUTRAL   | CR                 | CARD READER  |                  |            |
|                   |   | ∃ CO  | NDUIT CAP  | PR                 | PROXIMITY READER   |                  |            |
|                   | HATCHING <u>AND</u> "NL" INDICATES EMERGENCY AND NIGHTLIGHT (ALWAYS ON) FOR ANY OF THE ABOVE LIGHT FIXTURE TYPES. | -   | UIPMENT CONNECTION<br>NDUIT UP/DOWN                    | <u> </u>           | NURSE CALL DOME LIGHT WALL MOUNTED<br>Z=ZONE LIGHT   |                  |            |
| NL                |   |   |  | $\bullet$          | NURSE CALL DOME LIGHT CEILING MOUNTED  |                  |            |
| - OS              | WALL MOUNTED OCCUPANCY SENSOR   | i direction dir | OUND   |                    | Z=ZONE LIGHT   |                  |            |
| \$ <sup>a</sup>   | TOGGLE SWITCH - LEG "a"   |   |  | N                  | NURSE CALL EMERGENCY DEVICE<br>NC = NURSE CONSOLE (VOIP), DESK MOUNTED U.O.N.  |                  |            |
| \$ <sup>3</sup> a | TOGGLE SWITCH - 3-WAY, LEG "a"<br>4=4-WAY<br>D=DIMMER<br>OS=OCCUPANCY SENSOR<br>K=KEY<br>M=MOMENTARY              |   |  |                    | E = EMERGENCY PULL CORD STATION - PROVIDE CORD<br>TO WITHIN 2" OF FLOOR. FOR SHOWER STATIONS,<br>MOUNT AT 6'-6" A.F.F.<br>EC = EMERGENCY PULL CORD STATION WITH CANCEL<br>BUTTON. PROVIDE CORD TO WITHIN 2" OF FLOOR.<br>MSTR = NURSE CALL MASTER STATION. |                  |            |
|                   | P=PILOT LIGHT   |   |  | IZZ<br>NCEQ        | NURSE CALL WALL-MOUNTED EQUIPMENT CABINET WITH   |                  |            |
| OS                | CEILING MOUNTED MOTION SENSOR   |   |  | P                  | POWER SUPPLY AND ETHERNET SWITCHES.<br>PANIC BUTTON  |                  |            |
| ٠                 | CONTROL STATION   |   |  | DO                 | DOOR PUSH PAD  |                  |            |
|                   |   |   |  |                    |  |                  |            |

## ELECTRICAL SYMBOLS LEGEND

#### GENERAL ELECTRICAL NOTES: (APPLY TO ALL ELECTRICAL SHEETS)

1. PRIOR TO ANY ELECTRICAL OR SYSTEMS ROUGH-INS, MEET ON SITE FOR VERIFICATION OF EXACT LOCATION WITH OWNER AND ARCHITECT.

2. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC ONLY AND SHALL NOT BE SCALED FOR PURPOSES OF EQUIPMENT OR DEVICE LOCATIONS.

 CONTRACTOR IS RESPONSIBLE FOR COORDINATING INSTALLATION WITH CODE REQUIRED CLEARANCES AND OTHER TRADES, AND ACCESSIBILITY FOR OPERATION AND MAINTENANCE AS RECOMMENDED BY MANUFACTURERS.
 REFER TO ARCHITECTURAL, MECHANICAL, AND STRUCTURAL DRAWINGS AND COORDINATE LOCATIONS OF DEVICES AND

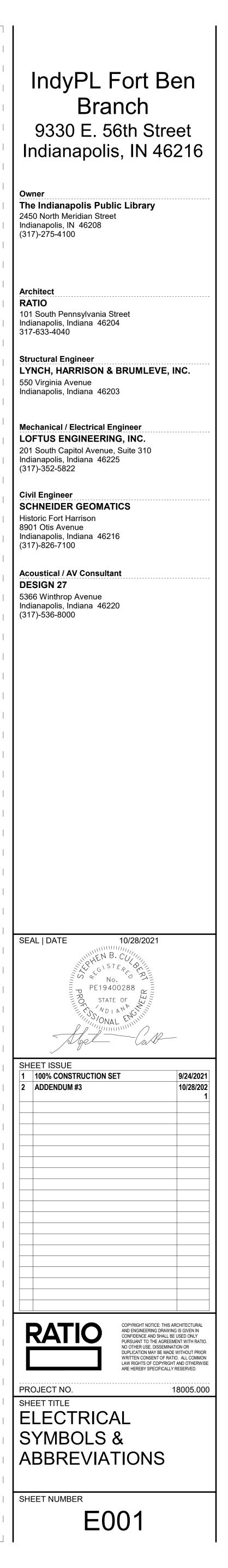
EQUIPMENT ACCORDINGLY. 5. BRING ANY DISCREPANCIES BETWEEN THE DRAWING TO THE ATTENTION OF THE ARCHITECT.

6. WRITTEN REQUEST FOR POWER OUTAGES SHALL BE SUBMITTED TO THE PROJECT MANAGER A MINIMUM OF 14-DAYS PRIOR TO THE REQUEST TIME FOR THE OUTAGE. THE REQUEST SHALL INCLUDE DURATION OF THE OUTAGE AND DETAIL ON AREAS OF THE BUILDING THAT WILL BE WITHOUT POWER DURING THE OUTAGE.

7. ALL NECESSARY POWER OUTAGES SHALL BE OF THE SHORTEST POSSIBLE DURATION.

8. THE CONTRACTOR IS ADVISED THAT NECESSARY SHUTDOWNS MAY BE REQUIRED TO OCCUR AT TIMES OUTSIDE OF NORMAL WORKING OR OPERATING HOURS TO ACCOMMODATE SCHEDULE. THE CONTRACTOR SHALL INCLUDE COSTS, IN HIS BID, FOR ANY OVERTIME WORK, OR WORK PERFORMED OUTSIDE OF NORMAL WORKING OR OPERATING HOURS.

9. ALL NEW RECEPTACLES, SWITCHES, ETC. ARE TO BE INSTALLED FLUSH MOUNTED IN WALLS UNLESS SPECIFICALLY INDICATED OTHERWISE,



## PLAN NOTES:

- (1) PROVIDE LIGHTING RELAY PANEL. SEE DETAIL #1 ON SHEET E504.
- PROVIDE SWITCH BOX MOUNTED MULTI-TECHNOLOGY OCCUPANCY SENSOR FOR CONTROL OF LIGHT FIXTURES IN THIS ROOM. SEE DETAIL #2 ON SHEET E502. 3) PROVIDE SWITCH BOX MOUNTED MULTI-TECHNOLOGY OCCUPANCY SENSOR WITH DIMMING FOR CONTROL OF LIGHT FIXTURES IN THIS ROOM. SEE DETAIL #3 ON SHEET E502.
- (4) PROVIDE CEILING MOUNTED MULTI-TECHNOLOGY OCCUPANCY SENSOR FOR
- LIGHTING CONTROL SYSTEM IN THIS ROOM. SEE DETAIL #4 ON SHEET E502. PROVIDE OCCUPANCY SENSOR LIGHTING CONTROL RELAY FOR CONTROL OF LIGHT
- LOCATION. SEE DETAIL #4 ON SHEET E502. (6) PROVIDE OCCUPANCY SENSOR LIGHTING CONTROL RELAY FOR CONTROL OF LIGHT FIXTURES IN MENS RESTROOM T-2. LOCATE ABOVE CEILING IN ACCESSIBLE LOCATION. SEE DETAIL #4 ON SHEET E502.
- 7) PROVIDE OCCUPANCY SENSOR LIGHTING CONTROL RELAY FOR CONTROL OF LIGHT FIXTURES IN STORAGE 101B . LOCATE IN ACCESSIBLE LOCATION +10' ABOVE FINISHED FLOOR IN AREAS WITH OPEN CEILING. SEE DETAIL #4 ON SHEET E502.
- (8) PROVIDE CEILING MOUNTED MULTI-TECHNOLOGY OCCUPANCY SENSOR FOR
- (9) PROVIDE LOW-VOLTAGE SWITCH FOR ON/OFF CONTROL OF OCCUPANCY SENSOR
- LIGHTING IN RECEIVING 121. SEE DETAIL #5 ON SHEET E502. (10) PROVIDE OCCUPANCY SENSOR LIGHTING CONTROL RELAY FOR CONTROL OF LIGHT

SEE DETAIL #5 ON SHEET E502.



- FIXTURES IN WOMENS RESTROOM T-1. LOCATE ABOVE CEILING IN ACCESSIBLE
- CONTROL OF LIGHT FIXTURES IN RECEIVING 121. SEE DETAIL #5 ON SHEET E502.
- FIXTURES IN RECEIVING 121. LOCATE ABOVE CEILING IN ACCESSIBLE LOCATION.

- 11) PROVIDE LIGHTING CONTROL STATION FOR THE ARCHITECTURAL LIGHTING CONTROL SYSTEM IN COMMUNITY ROOM 101. SEE DETAIL #1 ON SHEET E503.
- (12) PROVIDE CEILING MOUNTED MULTI-TECHNOLOGY OCCUPANCY SENSOR FOR THE ARCHITECTURAL LIGHTING CONTROL SYSTEM IN COMMUNITY ROOM 101. SEE DETAIL #1 ON SHEET E503.
- PROVIDE ARCHITECTURAL LIGHTING CONTROL SYSTEM ROOM CONTROLLER FOR CONTROL OF LIGHT FIXTURES IN COMMUNITY ROOM 101. LOCATE IN ACCESSIBLE LOCATION +10' ABOVE FINISHED FLOOR IN AREAS WITH OPEN CEILING. SEE DETAIL #1 ON SHEET E503.
- PROVIDE RELAY SYSTEM CONTROL OF LIGHT FIXTURES IN THIS ROOM. SEE DETAIL #1 ON SHEET E504.
- $\widehat{(15)}$  provide lighting control station for lighting relay panel. See detail #1 AND DETAIL #2 ON SHEET E504.
- (16) PROVIDE CEILING MOUNTED MULTI-TECHNOLOGY OCCUPANCY SENSOR FOR CONTROL OF LIGHT FIXTURES IN STAFF WORKROOM 113, STAFF OFFICE 119, AND STAFF LOUNGE 120. SEE DETAIL #5 ON SHEET E502.
- PROVIDE LOW-VOLTAGE SWITCH FOR ON/OFF CONTROL OF OCCUPANCY SENSOR LIGHTING IN STAFF WORKROOM 113, STAFF OFFICE 119, AND STAFF LOUNGE 120. SEE DETAIL #5 ON SHEET E502.
- (18) PROVIDE OCCUPANCY SENSOR LIGHTING CONTROL RELAY FOR CONTROL OF LIGHT FIXTURES IN STAFF WORKROOM 113, STAFF HALLWAY 118, STAFF OFFICE 119, AND STAFF LOUNGE 120. LOCATE ABOVE CEILING IN ACCESSIBLE LOCATION. SEE DETAIL #5 ON SHEET E502.
- (19) PROVIDE LIGHTING INVERTER. SEE INVERTER SCHEDULE ON SHEET E702.

- (20) ALL LIGHT FIXTURES IN THIS ROOM SHALL BE CIRCUITED AS INDICATED.
- (21) CIRCUIT LIGHT FIXTURE AS PART OF STAFF HALLWAY 118. SEE PLAN NOTE #18 THIS SHEET. (22) MOUNT EXIT SIGN WITH BOTTOM EDGE EVEN WITH BOTTOM EDGE OF MULLION
- ABOVE DOOR. INSTALL WIRING CONCEALED WITHIN STOREFRONT SYSTEM. COORDINATE INSTALLATION WITH CONTRACTOR RESPONSIBLE FOR STOREFRONT. PROVIDE EMERGENCY SECTION OF FIXTURE WITH EMERGENCY TRANSFER DEVICE TO TRANSFER SECTION TO INVERTER AND DRIVE DIMMING TO FULL ON IN THE EVENT OF FAILURE OF THE NORMAL LIGHTING CIRCUIT.
- 24) INSTALL EXTERIOR WALL MOUNTED FIXTURES WITH TOP OF FIXTURE AT +12-FEET ABOVE FINISHED BUILDING FLOOR ELEVATION.
- (25) PROVIDE CEILING MOUNTED MULTI-TECHNOLOGY OCCUPANCY SENSOR FOR CONTROL OF LIGHT FIXTURES IN CONFERENCE 109. SEE DETAIL #7 ON SHEET

E502

- (26) PROVIDE LOW-VOLTAGE SWITCH/0-10V CONTROLLER FOR ON/OFF CONTROL OF OCCUPANCY SENSOR LIGHTING IN CONFERENCE 109. SEE DETAIL #7 ON SHEET E502.
- PROVIDE OCCUPANCY SENSOR LIGHTING CONTROL RELAY FOR CONTROL OF LIGHT FIXTURES IN CONFERENCE 109. LOCATE ABOVE CEILING IN ACCESSIBLE LOCATION. SEE DETAIL #7 ON SHEET E502.
- (28) PENDANT MOUNT LIGHT FIXTURE AT +16'-6" A.F.F. TYPICAL TYPE 'LPA-12'.
- (29) PENDANT MOUNT LIGHT FIXTURE AT +16'-6" A.F.F. TYPICAL TYPE 'LPA-16'.
- (30) PENDANT MOUNT LIGHT FIXTURE AT +16'-6" A.F.F. TYPICAL TYPE 'LPA-18'.
- (31) PENDANT MOUNT LIGHT FIXTURE AT +12'-6" A.F.F. TYPICAL TYPE 'PAA'.

## 32) INSTALL RECESSED FIXTURE IN BOTTOM PANEL OF CANOPY CENTERED ON DOOR. COORDINATE INSTALLATION WITH STRUCTURAL FRAMING.

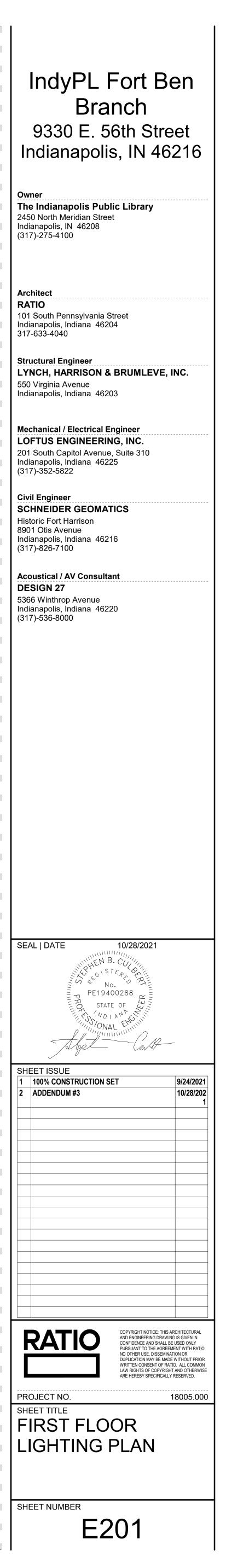
3) INSTALL SURFACE MOUNTED FIXTURES ON UNDERSIDE OF CANOPY BOTTOM PANEL. RECESS MOUNT JUNCTION BOX INSIDE CANOPY AND INSTALL WIRING CONCEALED WITHIN CANOPY. COORDINATE INSTALLATION WITH STRUCTURAL FRAMING.

(34) INSTALL MINIATURE, LOW-VOLTAGE TRACK LIGHTING IN TOP AND BOTTOM PANELS OF DISPLAY CASE. TRACK TO EXTENDED FROM SIDE-TO-SIDE. REFER TO ARCHITECTURAL DETAILS FOR INSTALLATION. COORDINATE WITH CONTRACTOR RESPONSIBLE FOR PROVIDING DISPLAY CASE.

(35) REFER TO SHEET ES101 FOR LIGHTING ALONG RAMP.

## **GENERAL NOTES:**

- A. REFER TO SHEET E001 FOR GENERAL NOTES.
- B. COORDINATE AND VERIFY LOCATIONS AND MOUNTING HEIGHTS OF ALL DEVICES WITH ARCHITECTURAL DRAWINGS AND SHOP DRAWINGS PRIOR TO ROUGH-INS.



| _                     | NG SURFACE   | CF - COMPACT FLUORES   |                       |             | 2. REFER TO SECTION 265100 "LIGHTING EQUIPMENT" AND SECTION 265200 "EMERGENCY LI<br>3. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING TYPES AND HEIGHTS.<br>CONSTRUCTION AND MATERIALS PRIOR TO SHOP DRAWING SUBMITTAL AND NOTIFY THE ARC  |                          |          |                            |                          |                |                             |                      |              |
|-----------------------|--|------------------------|-----------------------|-------------|--|--------------------------|----------|----------------------------|--------------------------|----------------|-----------------------------|----------------------|--------------|
| CV - COVE             |  | CMH - CERAMIC METAL    | HALIDE                |             | CONSTRUCTI   | Ion and MA               | ATERIAL  | S PRIOR TO                 | SHOP DRAV                | VING SUBM      | ITTAL AND N                 | NOTIFY 1             | THE          |
| O - OTHE<br>RE - RECE |  | FL - FLUORESCENT       | חוטטב                 |             | FIXTURE) TRI<br>(LIGHT FIXTU   | IMS AND TR               |          |                            |                          |                |                             |                      |              |
| SP - SUSP             |  | MH - METAL HALIDE      | DIODE                 |             | 4. REFER TO  | ) LIGHTING               | PLANS /  | and panel                  | SCHEDULES                | FOR VOLTA      | AGE INFORM                  | ATION.               |              |
| S - SURFA             |  | 0 - OTHER (SEE DESCRI  | PTION)                |             | 5. DEFINITIO   |                          |          |                            |                          | τη έλςη δι     |                             | ΙΙΜΤΝΑΤΙ             |              |
|                       | ER CABINET   |                        |                       |             | <ul> <li>a. DESIGN BASIS MANUFACTURER: WHERE LISTED IN EACH RESPECTIVE LUMINAIRE SC</li> <li>REQUIREMENTS FOR THE LUMINAIRE TO BE FURNISHED.</li> <li>b. ACCEPTABLE MANUFACTURER: WHERE ACCEPTABLE MANUFACTURERS ARE LISTED I</li> <li>ACCEPTABLE AS EQUALS TO THE "DESIGN BASIS" MANUFACTURER LUMINAIRE PROVIDED THE</li> </ul> |                          |          |                            |                          |                |                             |                      |              |
| WL - WAL              |  |                        |                       |             | ACCEPTABLE   | AS EQUALS                | 5 to the | E "DESIGN E                | Basis" Manu              | FACTURER       | LUMINAIRE                   | PROVID               | DED 1        |
|                       |  |                        |                       |             | 6. PRODUCT<br>SPECIFICATIO<br>ITEM. THE S  | ons inclui<br>Sample sha | DING BU  | IT NOT LIMI<br>AIN ON FILE | ITED TO CON<br>AS COMPAR | ISTRUCTIO      | N, DESIGN, \<br>H THE MATEF | VISUAL A<br>RIALS FL | APPE<br>URN1 |
|                       |  |                        | 1                     | DIMENCI     |  |                          |          |                            |                          | INPUT          |                             | 1                    |              |
| TYPE                  | DESCRIP  | TION                   | L                     | W           | IONS (MAX)   | DIA                      | MTG      | SOURCE                     | LUMENS<br>(MIN)          | WATTS<br>(MAX) | EM WATTS<br>(MAX)           | (MIN)                | _            |
| DRA                   | 6" SQUARE DOWNLIGHT<br>HOUSING: 16 GAUGE COLD-ROL<br>ALUMINUM MOUNTING GRIPS           | LED STEEL DIE CAST     | 1' - 2 3/4"           | 1' - 2 3/4" | ' 0' - 6"  | 0' - 0"                  | RE       | LED                        | 1624 L                   | 19 W           |                             | 80                   | 3            |
|                       | REFLECTOR: SPECULAR, 45 DEG  | REE BEAM               |                       |             |  |                          |          |                            |                          |                |                             |                      |              |
| DRB                   | 6" SQUARE DOWNLIGHT<br>HOUSING: 16 GAUGE COLD-ROL                                      | LED STEEL DIE CAST     | 1' - 2 3/4"           | 1' - 2 3/4" | 0' - 6"  | 0' - 0"                  | RE       | LED                        | 1624 L                   | 19 W           |                             | 80                   | 3            |
|                       | ALUMINUM MOUNTING GRIPS<br>REFLECTOR: SPECULAR, 45 DEG                                 |                        |                       |             |  |                          |          |                            |                          |                |                             |                      |              |
| DRD                   | 6" SQUARE DOWNLIGHT  |                        | 1' - 2 3/4"           | 1' - 2 3/4" | ' 0' - 6"  | 0' - 0"                  | RE       | LED                        | 906 L                    | 12 W           | +                           | 80                   | 3            |
|                       | HOUSING: 16 GAUGE COLD-ROL<br>ALUMINUM MOUNTING GRIPS                                  |                        |                       | / 1         |  |                          |          |                            |                          |                |                             |                      |              |
|                       | REFLECTOR: SPECULAR, 45 DEG<br>LOCATION: GENERAL                                       | REE BEAM               |                       |             |  |                          |          |                            |                          |                |                             |                      |              |
| DSC                   | 5" SQUARE SURFACE MOUNTED<br>HOUSING: 16 GAUGE COLD-ROL                                |                        | 0' - 5"               | 0' - 5"     | 0' - 3 1/2"  | 0' - 0"                  | RE       | LED                        | 567 L                    | 10 W           |                             | 80                   | 3            |
|                       | ALUMINUM MOUNTING GRIPS<br>REFLECTOR: SPECULAR, 45 DEG                                 |                        |                       |             |  |                          |          |                            |                          | \              |                             |                      |              |
| LPA-12                | LOCATION: GENERAL<br>AIRCRAFT CABLE SUSPENDED LI                                       |                        | 12' - 0"              | 0' - 2 1/2" | ' 0' - 2 1/2"  | 0' - 0"                  | SP       | LED {                      | 20964 L                  | 216 W          | <u>}</u>                    | 80                   | 3            |
|                       | UNIT<br>HOUSING: EXTRUDED ALUMINU  | M WITH DIE-CAST        |                       |             |  |                          |          |                            | han ~                    | $\downarrow$   |                             |                      |              |
|                       | ENDCAPS AND FULLY ADJUSTAB   | Y                      |                       |             |  |                          |          |                            |                          |                |                             |                      |              |
|                       | REFLECTOR/LENS: HIGHLY REFL<br>WHITE PAINTED COLD-ROLLED                               | STEEL REFLECTOR AND    |                       |             |  |                          |          |                            |                          |                |                             |                      |              |
|                       | FLUSH DIFFUSE SNAP-IN ACRYL<br>SANDBLASTED FINISH.                                     |                        |                       |             |  |                          |          |                            |                          |                |                             |                      |              |
|                       | DISTRIBUTION: 33% INDIRECT,<br>LOCATION: GENERAL                                       | U 70 DIREUI            |                       |             |  |                          |          |                            |                          | June           | 2                           |                      |              |
| LPA-16                | AIRCRAFT CABLE SUSPENDED LI  | INEAR DIRECT/INDIRECT  | 16' - 0"              | 0' - 2 1/2" | ' 0' - 2 1/2"  | 0' - 0"                  | SP       | LED                        | 27952 L                  | 288 W          | }                           | 80                   | 3            |
|                       | HOUSING: EXTRUDED ALUMINU  |                        |                       |             |  |                          |          |                            | مر                       | $\sim$         | 1                           |                      |              |
|                       | VERTICALLY AND HORIZONTALL<br>REFLECTOR/LENS: HIGHLY REFL                              | Y                      |                       |             |  |                          |          |                            |                          |                |                             |                      |              |
|                       | WHITE PAINTED COLD-ROLLED<br>FLUSH DIFFUSE SNAP-IN ACRYL                               | STEEL REFLECTOR AND    |                       |             |  |                          |          |                            |                          |                |                             |                      |              |
|                       | SANDBLASTED FINISH.<br>DISTRIBUTION: 33% INDIRECT,                                     | 67% DIRECT             |                       |             |  |                          |          |                            | _                        |                |                             |                      |              |
| 1.01                  | LOCATION: GENERAL  |                        | 101                   | 01 5        |  |                          |          |                            |                          | L m            | 2                           |                      | -            |
| LPA-18                | AIRCRAFT CABLE SUSPENDED LI<br>UNIT  |                        | 18' - 0"              | 0' - 2 1/2" | ' 0' - 2 1/2"  | 0' - 0"                  | SP       | LED (                      | 31446 L                  | 324 W          | }                           | 80                   |              |
|                       | HOUSING: EXTRUDED ALUMINU<br>ENDCAPS AND FULLY ADJUSTAB<br>VERTICALLY AND HORIZONTALL  | LE AIRCRAFT CABLE BOTH |                       |             |  |                          |          |                            | اس                       | $\downarrow$   |                             |                      |              |
|                       | VERTICALLY AND HORIZONTALL<br>REFLECTOR/LENS: HIGHLY REFL<br>WHITE PAINTED COLD-ROLLED | ECTIVE DIE-FORMED      |                       |             |  |                          |          |                            |                          |                |                             |                      |              |
|                       | FLUSH DIFFUSE SNAP-IN ACRYL<br>SANDBLASTED FINISH.                                     |                        |                       |             |  |                          |          |                            |                          |                |                             |                      |              |
|                       | DISTRIBUTION: 33% INDIRECT/<br>LOCATION: GENERAL                                       | '67% DIRECT            |                       |             |  |                          |          |                            |                          |                |                             |                      |              |
| LRA-24                | 4" RECESSED LINEAR DIRECT U  | NIT                    | 24' - 0"              | 0' - 2 1/2" | ' 0' - 2 1/2"  | 0' - 0"                  | RE       | LED                        | 20208 L                  | 170 W          | +                           | 80                   |              |
|                       | HOUSING: EXTRUDED ALUMINU<br>ENDCAPS   | M WITH DIE-CAST        |                       |             |  |                          |          |                            |                          |                |                             |                      |              |
|                       | REFLECTOR/LENS: HIGHLY REFL<br>WHITE PAINTED COLD-ROLLED                               | STEEL REFLECTOR AND    |                       |             |  |                          |          |                            |                          |                |                             |                      |              |
|                       | FLUSH DIFFUSE SNAP-IN ACRYL<br>SANDBLASTED FINISH.<br>DISTRIBUTION: DIRECT             | LE LENG WITH FRUST UK  |                       |             |  |                          |          |                            |                          |                |                             |                      |              |
|                       | LOCATION: GENERAL  |                        |                       |             |  |                          |          |                            |                          |                |                             |                      |              |
|                       |  |                        |                       |             |  |                          |          |                            |                          |                |                             |                      |              |
| LRB-4                 | 4" RECESSED LINEAR PERIMETE<br>HOUSING: EXTRUDED ALUMINU                               |                        | 4' - 0"               | 0' - 2 1/2" | 0' - 2 1/2"  | 0' - 0"                  | RE       | LED                        | 1268 L                   | 14 W           |                             | 80                   |              |
|                       | ENDCAPS<br>REFLECTOR/LENS: HIGHLY REFL   |                        |                       |             |  |                          |          |                            |                          |                |                             |                      |              |
|                       | WHITE PAINTED COLD-ROLLED<br>FLUSH DIFFUSE SNAP-IN ACRYL<br>SANDBLASTED FINISH.        |                        |                       |             |  |                          |          |                            |                          |                |                             |                      |              |
|                       | DISTRIBUTION: DIRECT   |                        |                       |             |  |                          |          |                            |                          |                |                             |                      |              |
|                       |  |                        |                       |             |  |                          |          |                            |                          |                |                             |                      |              |
| LRB-6                 | 4" RECESSED LINEAR PERIMETE  | R SLOT                 | 6' - 0"               | 0' - 2 1/2" | ' 0' - 2 1/2"  | 0' - 0"                  | RE       | LED                        | 1902 L                   | 22 W           | +                           | 80                   |              |
|                       | HOUSING: EXTRUDED ALUMINU<br>ENDCAPS   | M WITH DIE-CAST        |                       |             |  |                          |          |                            |                          |                |                             |                      |              |
|                       | REFLECTOR/LENS: HIGHLY REFL<br>WHITE PAINTED COLD-ROLLED                               | STEEL REFLECTOR AND    |                       |             |  |                          |          |                            |                          |                |                             |                      |              |
|                       | FLUSH DIFFUSE SNAP-IN ACRYL<br>SANDBLASTED FINISH.                                     | IC LENS WITH FROST OR  |                       |             |  |                          |          |                            |                          |                |                             |                      |              |
|                       | DISTRIBUTION: DIRECT<br>LOCATION: GENERAL  |                        |                       |             |  |                          |          |                            |                          |                |                             |                      |              |
|                       |  |                        |                       |             |  |                          |          |                            |                          |                |                             |                      |              |
| LRB-17                | 4" RECESSED LINEAR PERIMETE<br>HOUSING: EXTRUDED ALUMINU                               |                        | 17' - 0"              | 0' - 2 1/2" | ' 0' - 2 1/2"  | 0' - 0"                  | RE       | LED                        | 5389 L                   | 61 W           | 1                           | 80                   |              |
|                       | ENDCAPS<br>REFLECTOR/LENS: HIGHLY REFL   | ECTIVE DIE-FORMED      |                       |             |  |                          |          |                            |                          |                |                             |                      |              |
|                       | WHITE PAINTED COLD-ROLLED<br>FLUSH DIFFUSE SNAP-IN ACRYL                               |                        |                       |             |  |                          |          |                            |                          |                |                             |                      |              |
|                       | SANDBLASTED FINISH.<br>DISTRIBUTION: DIRECT<br>LOCATION: GENERAL                       |                        |                       |             |  |                          |          |                            |                          |                |                             |                      |              |
|                       | LOCATION. GENERAL  |                        |                       |             |  |                          |          |                            |                          |                |                             |                      |              |
| LRC-15                | 4" RECESSED LINEAR DIRECT U  | NIT                    | 15' - 3"              | 4' - 0"     | 5' - 0"  | 0' - 0"                  | RE       | LED                        | 11224 L                  | 109 W          | <u> </u>                    | 80                   |              |
| -10-13                | HOUSING: EXTRUDED ALUMINU<br>ENDCAPS   |                        | <u>د</u> - ر <u>ـ</u> | 1 - 0       | J ~ U  | <b>J U</b>               |          |                            | ±1227 L                  | 102 10         |                             |                      |              |
|                       | REFLECTOR/LENS: HIGHLY REFL<br>WHITE PAINTED COLD-ROLLED                               | STEEL REFLECTOR AND    |                       |             |  |                          |          |                            |                          |                |                             |                      |              |
|                       | FLUSH DIFFUSE SNAP-IN ACRYL<br>SANDBLASTED FINISH.                                     |                        |                       |             |  |                          |          |                            |                          |                |                             |                      |              |
|                       | DISTRIBUTION: DIRECT<br>LOCATION: GENERAL  |                        |                       |             |  |                          |          |                            |                          |                |                             |                      |              |
|                       |  |                        |                       |             |  |                          |          |                            |                          |                |                             |                      |              |
| LRC-20                | 4" RECESSED LINEAR DIRECT U  |                        | 20' - 11"             | 4' - 0"     | 5' - 0"  | 0' - 0"                  | RE       | LED                        | 14965 L                  | 145 W          | +                           | 80                   |              |
|                       | HOUSING: EXTRUDED ALUMINU<br>ENDCAPS<br>REFLECTOR/LENS: HIGHLY REFL                    |                        |                       |             |  |                          |          |                            |                          |                |                             |                      |              |
|                       | WHITE PAINTED COLD-ROLLED  |                        |                       |             |  |                          |          |                            |                          |                |                             |                      |              |
|                       | FLUSH DIFFUSE SNAP-IN ACRYL  |                        |                       |             |  |                          |          |                            |                          |                |                             |                      | 1            |
|                       | FLUSH DIFFUSE SNAP-IN ACRYL<br>SANDBLASTED FINISH.<br>DISTRIBUTION: DIRECT             |                        |                       |             |  |                          |          |                            |                          |                |                             |                      |              |

## DULE

## GENERAL NOTES

LIGHT FIXTURE) INFORMATION AND REQUIREMENTS. ITING EQUIPMENT" FOR ADDITIONAL RELATED LIGHTING EQUIPMENT REQUIREMENTS.

ONTRACTOR TO VERIFY COMPATIBILITY OF LUMINAIRES (LIGHT FIXTURES) WITH CEILING MATERIAL, ADJACENT FINISHES, ADJACENT TECT AND ENGINEER OF ANY CONFLICTS WITH THE PROPOSED INSTALLATION. CONTRACTORS TO COORDINATE ALL LUMINAIRE (LIGHT D AS SUCCESSFULLY AWARDED, PURCHASED CEILING SYSTEMS. MULTIPLE TRIM COLORS AND TILES MAY BE NEEDED FOR EACH LUMINAIRE

JLE, THE "DESIGN BASIS" MANUFACTURER MODEL SERIES NUMBER SHALL SERVE TO INDICATE THE LEVEL OF QUALITY AND MINIMUM H RESPECTIVE LUMINAIRE SCHEDULE, THIS SHALL BE INTERPRETTED TO MEAN THAT LUMINAIRES BY THE LISTED MANUFACTURERS WILL BE HE MANUFACTURER DEMONSTRATES FULL COMPLIANCE WITH ALL OF THE REQUIREMENTS CONTAINED IN THESE CONTRACT DOCUMENTS. ERING SAMPLE PRODUCT OF EACH AND EVERY LUMINAIRE FOR INSPECTION. SAMPLES SUBMITTED SHALL BE IN FULL COMPLIANCE WITH THE E, AND PERFORMANCE. THE MANUFACTURER SHALL HAVE PREVIOUSLY BUILT THE LUMINAIRE AND THE LUMINAIRE SHALL BE A PRODUCTION ON THE PROJECT. MATERIALS NOT EQUAL TO THE APPROVED SAMPLE WILL BE REJECTED. CES".>>>>

|     |                         |                                       | 1  | 1   | Γ   |  |                |   |
|-----|-------------------------|---------------------------------------|--|---|---|--|----------------|---|
| (   | DRIVER<br>D-10V DIMMING | FINISH<br>AS SELECTED BY<br>ARCHITECT | LISTING<br>UL LISTED FOR DAMP<br>LOCATIONS | DESIGN BASIS<br>MANUFACTURER<br>PRESCOLITE "LTR-6SQD"<br>SERIES | ACCEPTABLE<br>MANUFACTURER<br>1. GOTHAM<br>2. PORTFOLIO | REMARKS  | TYPE<br>LRD-20 | DESCRIPTION<br>2" WIDE RECESSED LINEAR TRACK<br>HOUSING: EXTRUDED ALUMINUM.<br>LIGHT FIXTURE ASSEMBLIES TO INST   |
| (   | 0-10V DIMMING           | AS SELECTED BY<br>ARCHITECT           | UL LISTED FOR DAMP<br>LOCATIONS            | PRESCOLITE "LTR-6SQD"<br>SERIES                                 | 1. GOTHAM<br>2. PORTFOLIO                               |  |                | TRACK.<br>LOCATION: DISPLAY CASE<br>PROVIDE WITH TRACK HEAD FIXTUE  |
| . ( | )-10V DIMMING           | AS SELECTED BY<br>ARCHITECT           | UL LISTED FOR WET<br>LOCATIONS             | PRESCOLITE "LTR-6SQD"<br>SERIES                                 | 1. GOTHAM<br>2. PORTFOLIO                               |  | LSA-4          | 4" SURFACE MOUNT LINEAR DIRECT<br>HOUSING: EXTRUDED ALUMINUM WI<br>ENDCAPS AND FULLY ADJUSTABLE AI<br>VERTICALLY AND HORIZONTALLY   |
| (   | )-10V DIMMING           | AS SELECTED BY<br>ARCHITECT           | UL LISTED FOR WET<br>LOCATIONS             | PERFORMANCE IN<br>LIGHTING "MIMIK 10"<br>SERIES                 | 1. GOTHAM<br>2. PORTEOLIO<br>3. HALO<br>COMMERCIAL      | 2  |                | REFLECTOR/LENS: HIGHLY REFLECTI<br>WHITE PAINTED COLD-ROLLED STEE<br>FLUSH DIFFUSE SNAP-IN ACRYLIC LE<br>SANDBLASTED FINISH.<br>DISTRIBUTION: DIRECT<br>LOCATION: GENERAL   |
| . ( | )-10V DIMMING           | AS SELECTED BY<br>ARCHITECT           | UL LISTED FOR DAMP<br>LOCATIONS            | TINELITE "HP-4ID" SERIES  | 1. PINNACLE<br>2. FOCAL POINT                           | 1. THE LENS SHALL BE<br>PROVIDED IN INDIVIDUAL<br>SECTIONS OF OVERALL<br>LENGTH REQUIRED FOR A<br>CONTINUOUS APPEARANCE<br>THE ENTIRE LENGTH OF THE<br>COMPLETE UNIT. ANY<br>INDIVIDUAL SECTION OF<br>LENS SHALL NOT BE<br>SHORTER THAN 4'-0" AND  | PAA<br>RCA-14  | DECORATIVE PENDANT MOUNT ROUN<br>HOUSING: LAMINATED WOOD/FABRI<br>LENS: POLYCARBONATE FROSTED BC<br>DISTRIBUTION: WIDE<br>LOCATION: GENERAL<br>2X2 RECESSED CEILING TROFFER WI<br>HOUSING: DIE-FORMED COLD-ROLLE<br>REFLECTOR/LENS: HIGH-REFLECTANC   |
|     | 0-10V DIMMING           | AS SELECTED BY<br>ARCHITECT           | UL LISTED FOR DAMP<br>LOCATIONS            | FINELITE "HP-4ID" SERIES  | 1. PINNACLE<br>2. FOCAL POINT                           | SHALL NOT EXCEED 8'-0" IN<br>LENGTH.<br>1. THE LENS SHALL BE<br>PROVIDED IN INDIVIDUAL<br>SECTIONS OF OVERALL<br>LENGTH REQUIRED FOR A<br>CONTINUOUS APPEARANCE<br>THE ENTIRE LENGTH OF THE<br>COMPLETE UNIT. ANY<br>INDIVIDUAL SECTION OF<br>LENS SHALL NOT BE<br>SHORTER THAN 4'-0" AND<br>SHALL NOT EXCEED 8'-0" IN | RCA-22         | REFLECTOR WITH ACRYLIC FROSTED         DISTRIBUTION: DIRECT         LOCATION: GENERAL         2X2 RECESSED CEILING TROFFER WI         HOUSING: DIE-FORMED COLD-ROLLE         REFLECTOR/LENS: HIGH-REFLECTAND         REFLECTOR WITH ACRYLIC FROSTED         DISTRIBUTION: DIRECT         LOCATION: GENERAL         DOUBLE HEAD ARM MOUNT AT 180-E         WITH 20 FT POLE         MOUNTING: TWIN ARM MOUNT         HOUSING: DIE-CAST ALUMINUM WIT |
|     | D-10V DIMMING           | AS SELECTED BY<br>ARCHITECT           | UL LISTED FOR DAMP<br>LOCATIONS            | FINELITE "HPX-ID" SERIES  |   | LENGTH.<br>1. THE LENS SHALL BE<br>PROVIDED IN INDIVIDUAL<br>SECTIONS OF OVERALL<br>LENGTH REQUIRED FOR A<br>CONTINUOUS APPEARANCE<br>THE ENTIRE LENGTH OF THE<br>COMPLETE UNIT. ANY<br>INDIVIDUAL SECTION OF<br>LENS SHALL NOT BE<br>SHORTER THAN 4'-0" AND<br>SHALL NOT EXCEED 8'-0" IN<br>LENGTH.                   | V2             | HARDWARE<br>POLE: 5" ROUND, .188" THICK, STRA<br>ALLOY WITH CAST ALUMINUM ALLOY<br>ALUMINUM BOLT COVERS. FIXTURE<br>ARM MOUNT.<br>OPTICS: FULLY GASKETED CLEAR LEN<br>DISTRIBUTION: TYPE V - WIDE (ROU<br>LOCATION: PARKING LOT<br>SINGLE HEAD ARM MOUNT AREA ASS<br>POLE<br>MOUNTING: ARM MOUNT<br>HOUSING: DIE-CAST ALUMINUM WIT<br>HARDWARE  |
| . ( | )-10V DIMMING           | AS SELECTED BY<br>ARCHITECT           | UL LISTED FOR DAMP<br>LOCATIONS            | FINELITE "HP4R" SERIES  |   | 1. THE LENS SHALL BE<br>PROVIDED IN INDIVIDUAL<br>SECTIONS OF OVERALL<br>LENGTH REQUIRED FOR A<br>CONTINUOUS APPEARANCE<br>THE ENTIRE LENGTH OF THE<br>COMPLETE UNIT. ANY<br>INDIVIDUAL SECTION OF<br>LENS SHALL NOT BE<br>SHORTER THAN 4'-0" AND<br>SHALL NOT EXCEED 8'-0" IN   | WMA            | POLE: 5" ROUND, .188" THICK, STRA<br>ALLOY WITH CAST ALUMINUM ALLOY<br>ALUMINUM BOLT COVERS. FIXTURE<br>ARM MOUNT.<br>OPTICS: FULLY GASKETED CLEAR LEN<br>DISTRIBUTION: TYPE IV<br>LOCATION: PARKING LOT<br>SQUARE WALL MOUNT HIGH EFFICIE<br>HOUSING: EXTRUDED ALUMINUM<br>OPTICS: SPECULAR REFLECTOR AND<br>ACRYLIC.<br>DISTRIBUTION: 45 DEGREE CUTOFF  |
|     | 0-10V DIMMING           | AS SELECTED BY<br>ARCHITECT           | UL LISTED FOR DAMP<br>LOCATIONS            | FINELITE "HP-WS" SERIES   | 1. PINNACLE<br>2. FOCAL POINT                           | LENGTH.<br>1. THE LENS SHALL BE<br>PROVIDED IN INDIVIDUAL<br>SECTIONS OF OVERALL<br>LENGTH REQUIRED FOR A<br>CONTINUOUS APPEARANCE<br>THE ENTIRE LENGTH OF THE<br>COMPLETE UNIT. ANY<br>INDIVIDUAL SECTION OF<br>LENS SHALL NOT BE<br>SHORTER THAN 4'-0" AND<br>SHALL NOT EXCEED 8'-0" IN<br>LENGTH.                   | WMB<br>WMC     | DISTRIBUTION: 45 DEGREE CUTOFF<br>LOCATION: GENERAL<br>SQUARE WALL MOUNT HIGH EFFICIE<br>HOUSING: EXTRUDED ALUMINUM<br>OPTICS: SPECULAR REFLECTOR AND<br>ACRYLIC.<br>DISTRIBUTION: 45 DEGREE CUTOFF<br>LOCATION: GENERAL<br>LOW PROFILE LINEAR STEP LIGHT<br>HOUSING: EXTRUDED ALUMINUM<br>OPTICS: SPECULAR REFLECTOR AND<br>ACRYLIC.<br>DISTRIBUTION: 45 DEGREE CUTOFF   |
|     | )-10V DIMMING           | AS SELECTED BY<br>ARCHITECT           | UL LISTED FOR DAMP<br>LOCATIONS            | FINELITE "HP-WS" SERIES   |   | 1. THE LENS SHALL BE<br>PROVIDED IN INDIVIDUAL<br>SECTIONS OF OVERALL<br>LENGTH REQUIRED FOR A<br>CONTINUOUS APPEARANCE<br>THE ENTIRE LENGTH OF THE<br>COMPLETE UNIT. ANY<br>INDIVIDUAL SECTION OF<br>LENS SHALL NOT BE<br>SHORTER THAN 4'-0" AND<br>SHALL NOT EXCEED 8'-0" IN<br>LENGTH.                              | WMD<br>XCX     | LOCATION: GENERAL<br>SQUARE WALL MOUNT HIGH EFFICIE<br>HOUSING: EXTRUDED ALUMINUM<br>OPTICS: SPECULAR REFLECTOR AND<br>ACRYLIC.<br>DISTRIBUTION: 45 DEGREE CUTOFF<br>LOCATION: GENERAL<br>CEILING MOUNTED CAST ALUMINUM<br>FINISH: WHAITE PAINTED.<br>ARROWS/LETTERING COLOR: GREEN<br>SPECIAL NOTE: ARROWS TO BE AS S  |
| . ( | )-10V DIMMING           | AS SELECTED BY<br>ARCHITECT           | UL LISTED FOR DAMP<br>LOCATIONS            |   | 2. FOCAL POINT  | 1. THE LENS SHALL BE<br>PROVIDED IN INDIVIDUAL<br>SECTIONS OF OVERALL<br>LENGTH REQUIRED FOR A<br>CONTINUOUS APPEARANCE<br>THE ENTIRE LENGTH OF THE<br>COMPLETE UNIT. ANY<br>INDIVIDUAL SECTION OF<br>LENS SHALL NOT BE<br>SHORTER THAN 4'-0" AND<br>SHALL NOT EXCEED 8'-0" IN   | XWX            | DRAWINGS OR AS REQUIRED. THE L<br>OR DOUBLE FACED AS SHOWN ON TH<br>REQUIRED. THE UNIT SHALL BE CO<br>UNIVERSAL CANOPY TO ALLOW FOR<br>END MOUNTING AS REQUIRED. THE<br>VERIFY ALL SINGLE OR DOUBLE FACE<br>ARROW REQUIREMENTS AND MOUNT<br>LOCATION: GENERAL.<br>WALL MOUNTED CAST ALUMINUM EX<br>FINISH: WHAITE PAINTED.<br>ARROWS/LETTERING COLOR: GREEN<br>SPECIAL NOTE: ARROWS TO BE AS S  |
|     | D-10V DIMMING           | AS SELECTED BY<br>ARCHITECT           | UL LISTED FOR DAMP<br>LOCATIONS            |   | 2 FOCAL POINT   | LENGTH.<br>1. THE LENS SHALL BE<br>PROVIDED IN INDIVIDUAL<br>SECTIONS OF OVERALL<br>LENGTH REQUIRED FOR A<br>CONTINUOUS APPEARANCE<br>THE ENTIRE LENGTH OF THE<br>COMPLETE UNIT. ANY<br>INDIVIDUAL SECTION OF<br>LENS SHALL NOT BE<br>SHORTER THAN 4'-0" AND<br>SHALL NOT EXCEED 8'-0" IN                              |                | DRAWINGS OR AS REQUIRED. THE L<br>OR DOUBLE FACED AS SHOWN ON TH<br>REQUIRED. THE UNIT SHALL BE CO<br>UNIVERSAL CANOPY TO ALLOW FOR<br>END MOUNTING AS REQUIRED. THE O<br>VERIFY ALL SINGLE OR DOUBLE FACE<br>ARROW REQUIREMENTS AND MOUNT<br>LOCATION: GENERAL.  |
|     | )-10V DIMMING           | AS SELECTED BY<br>ARCHITECT           | UL LISTED FOR DAMP<br>LOCATIONS            | FLUXWERX "NOTCH" SERIES   | 2 FOCAL POINT<br>3. LUMENWERX                           | LENGTH.<br>1. THE LENS SHALL BE<br>PROVIDED IN INDIVIDUAL<br>SECTIONS OF OVERALL<br>LENGTH REQUIRED FOR A<br>CONTINUOUS APPEARANCE<br>THE ENTIRE LENGTH OF THE<br>COMPLETE UNIT. ANY<br>INDIVIDUAL SECTION OF<br>LENS SHALL NOT BE<br>SHORTER THAN 4'-0" AND<br>SHALL NOT EXCEED 8'-0" IN<br>LENGTH.                   |                |   |

O - OTHER (SEE DESCRIPTION) FL - FLUORESCENT RE - RECESSED LED - LIGHT EMITTING DIODE 4. REFER TO LIGHTING PLANS AND PANEL SCHEDULES FOR VOLTAGE INFORMATION. SP - SUSPENDED MH - METAL HALIDE 5. DEFINITIONS: S - SURFACE O - OTHER (SEE DESCRIPTION) a. DESIGN BASIS MANUFACTURER: WHERE LISTED IN EACH RESPECTIVE LUMINAIRE SCHEDULE, THE "DESIGN BASIS" MANUFACTURER MODEL SERIES NUMBER SHALL SERVE TO INDICATE THE LEVEL OF QUALITY AND MINIMUM REQUIREMENTS FOR THE LUMINAIRE TO BE FURNISHED. UC - UNDER CABINET b. ACCEPTABLE MANUFACTURER: WHERE ACCEPTABLE MANUFACTURERS ARE LISTED IN EACH RESPECTIVE LUMINAIRE SCHEDULE, THIS SHALL BE INTERPRETTED TO MEAN THAT LUMINAIRES BY THE LISTED MANUFACTURERS WILL BE ACCEPTABLE AS EQUALS TO THE "DESIGN BASIS" MANUFACTURER LUMINAIRE PROVIDED THAT THE MANUFACTURER DEMONSTRATES FULL COMPLIANCE WITH ALL OF THE REQUIREMENTS CONTAINED IN THESE CONTRACT DOCUMENTS. WL - WALL 6. PRODUCT SAMPLES: THE ENGINEER/DESIGNER RESERVES THE RIGHT TO REQUEST AN ENGINEERING SAMPLE PRODUCT OF EACH AND EVERY LUMINAIRE FOR INSPECTION. SAMPLES SUBMITTED SHALL BE IN FULL COMPLIANCE WITH (317)-275-4100 THE SPECIFICATIONS INCLUDING BUT NOT LIMITED TO CONSTRUCTION, DESIGN, VISUAL APPEARANCE, AND PERFORMANCE. THE MANUFACTURER SHALL HAVE PREVIOUSLY BUILT THE LUMINAIRE AND THE LUMINAIRE SHALL BE A PRODUCTION ITEM. THE SAMPLE SHALL REMAIN ON FILE AS COMPARISON WITH THE MATERIALS FURNISHED ON THE PROJECT. MATERIALS NOT EQUAL TO THE APPROVED SAMPLE WILL BE REJECTED. <<<<7. CASH ALLOWANCES: SEE SPECIFICATION SECTION 265100 PARAGRAPH 1.7 "ALLOWANCES".>>>> DIMEN 20' - 0" 0'-1 | 13/3 INSTALL INTO RECESSED TUES AS INDICATED CT UNIT 4' - 0" 0' - 4" WITH DIE-CAST E AIRCRAFT CABLE BOTH CTIVE DIE-FORMED TEEL REFLECTOR AND CLENS WITH FROST OR OUND DRUM FIXTURE 0' - 0" 1' - 5" BOTTOM LENSES WITH CENTER OPTIC 4' - 0" 1' - 0" LLED CODE GAUGE STEEL ANCE SHEET METAL TED CENTER OPTIC LENS WITH CENTER OPTIC 2' - 0" 2' - 0" LLED CODE GAUGE STEEL ANCE SHEET METAL TED CENTER OPTIC LENS 30-DEG. AREA ASSEMBLY 1' - 10" 1' - 10 WITH STAINLESS STEEL FRAIGHT ALUMINUM LOY BASE AND IRE HEAD TO ATTACH VIA LENS ROUND) ASSEMBLY WITH 15 FT 1' - 10" 1' - 10" WITH STAINLESS STEEL FRAIGHT ALUMINUM LOY BASE AND IRE HEAD TO ATTACH VIA LENS CIENCY WEDGE LIGHT 0' - 11 1/2" 0' - 7" ND CLEAR SCREEN CIENCY WEDGE LIGHT 0' - 11 1/2" 0' - 7" ND CLEAR SCREEN )FF 0' - 11 0' - 2 3/16" ND CLEAR SCREEN FF CIENCY WEDGE LIGHT 0' - 11 1/2" 0' - 7" ND CLEAR SCREEN )FF 1' - 1" 0' - 2" UM EXIT SIGN. EEN. AS SHOWN ON HE UNIT SHALL BE SINGLE IN THE DRAWINGS OR AS COMPLETE WITH OR CEILING, WALL OR HE CONTRACTOR SHALL ACE REQUIREMENTS,

UNTING REQUIREMENTS 1 EXIT SIGN. EN. AS SHOWN ON IE UNIT SHALL BE SINGLE N THE DRAWINGS OR AS E COMPLETE WITH FOR CEILING, WALL OR

HE CONTRACTOR SHALL ACE REQUIREMENTS, UNTING REQUIREMENTS. 

CF - COMPACT FLUORESCENT

CMH - CERAMIC METAL HALIDE

SOURCE

ABBREVIATIONS

MOUNTING (MTG)

CL - CEILING SURFACE

CV - COVE

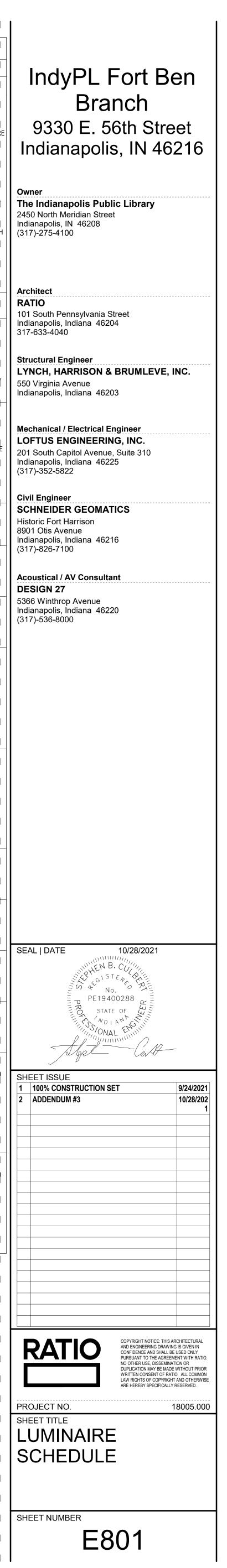
## LUMINAIRE (LIGHT FIXTURE) SCHEDULE - CONTINUED

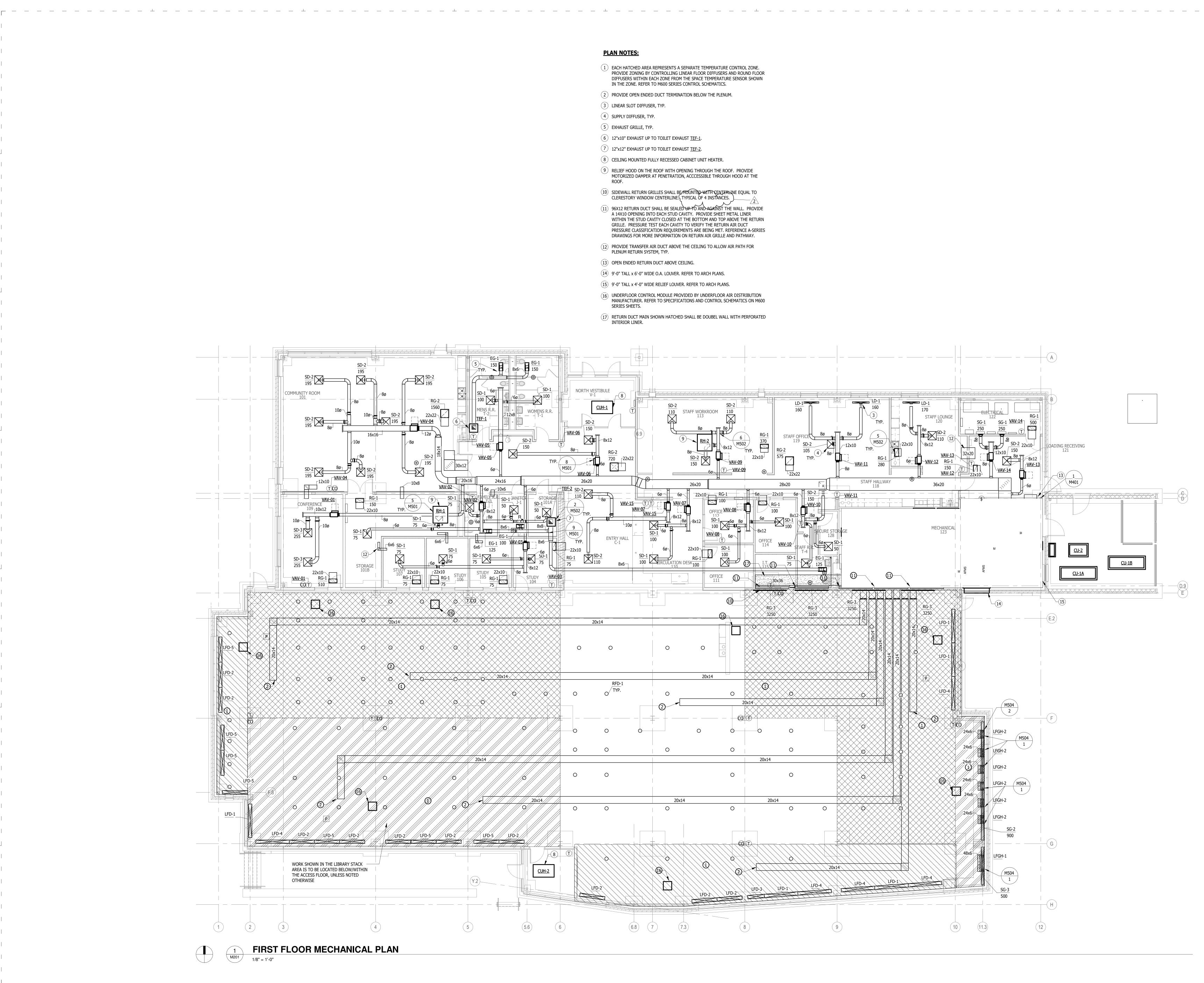
GENERAL NOTES

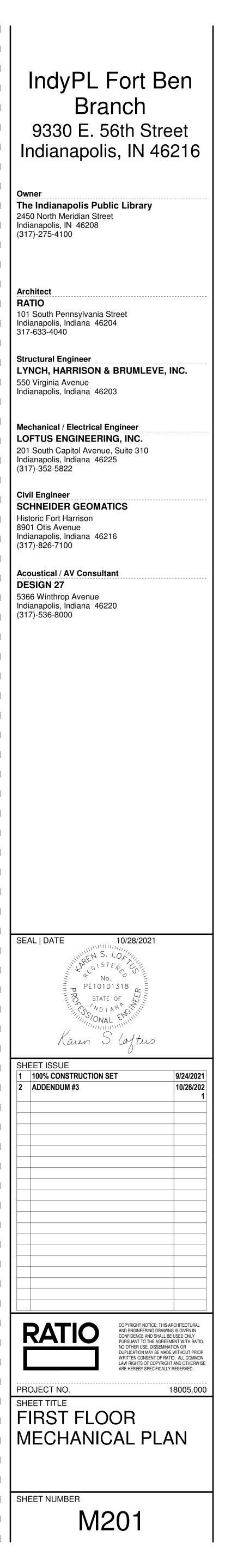
I. REFER TO SPECIFICATION SECTION 265113 "LUMINAIRE LIST" FOR ADDITIONAL LUMINAIRE (LIGHT FIXTURE) INFORMATION AND REQUIREMENTS. 2. REFER TO SECTION 265100 "LIGHTING EQUIPMENT" AND SECTION 265200 "EMERGENCY LIGHTING EQUIPMENT" FOR ADDITIONAL RELATED LIGHTING EQUIPMENT REQUIREMENTS.

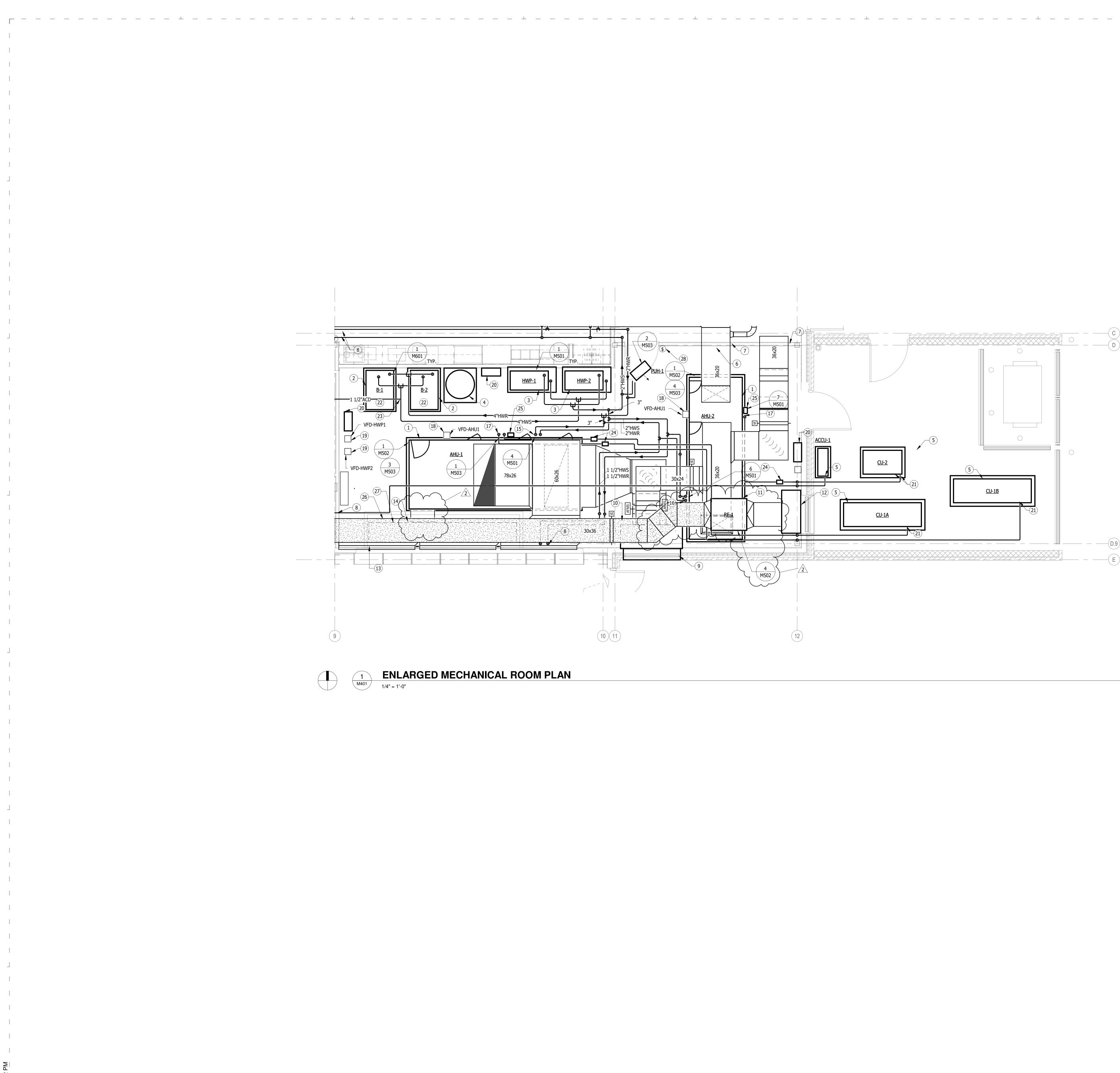
| 3. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING TYPES AND HEIGHTS. CONTRACTOR TO VERIFY COMPATIBILITY OF LUMINAIRES (LIGHT FIXTURES) WITH CEILING MATERIAL, ADJACENT FINISHES, ADJACENT    |
|--|
| <br>CONSTRUCTION AND MATERIALS PRIOR TO SHOP DRAWING SUBMITTAL AND NOTIFY THE ARCHITECT AND ENGINEER OF ANY CONFLICTS WITH THE PROPOSED INSTALLATION. CONTRACTORS TO COORDINATE ALL LUMINAIRE (LIGHT     |
| FIXTURE) TRIMS AND TRIM FINISHES TO MATCH THE CEILING SYSTEMS, BOTH AS SPECIFIED AND AS SUCCESSFULLY AWARDED, PURCHASED CEILING SYSTEMS. MULTIPLE TRIM COLORS AND TILES MAY BE NEEDED FOR EACH LUMINAIRE |
| <br>(LIGHT FIXTURE) TYPE.  |
|  |

|                |                  | DIMENSIONS (MAX) |                  |         |     | INPUT |                 |                |                   |              |        |               |   |                                 |   |   |   |
|----------------|------------------|------------------|------------------|---------|-----|-------|-----------------|----------------|-------------------|--------------|--------|---------------|---|---------------------------------|---|---|---|
|                | L                | W                | Н                | DIA     | MTG |       | LUMENS<br>(MIN) | WATTS<br>(MAX) | EM WATTS<br>(MAX) | CRI<br>(MIN) | ССТ    | DRIVER        | FINISH  | LISTING                         | DESIGN BASIS<br>MANUFACTURER                | ACCEPTABLE  |   |
| ED             | 20' - 0"         | 0' - 1<br>13/32" | 0' - 3<br>13/32" | 0' - 0" | RE  | LED   |                 |                |                   | -            | -      | 0-10V DIMMING | AS SELECTED BY<br>ARCHITECT                                   | UL LISTED FOR DAMP<br>LOCATIONS | LITELINE KIICK SERIES LV<br>TRACK           | 2   | 1. INSTALL TRACK RECESS<br>MOUNTED IN TOP AND<br>BOTTOM OF DISPLAY CASE.<br>2. PROVIDE (15) 24"<br>"KL-BAR" (600 L) LINEAR<br>FLOODLIGHT FIXTURES.<br>3. PROVIDE (6)<br>"ADJUSTABLE 20-DEG SPOT"<br>(550 L) SPOTLIGHT<br>FIXTURES.  |
| TH             | 4' - 0"          | 0' - 4"          | 0' - 4"          | 0' - 0" | S   | LED   | 3300 L          | 27 W           |                   | 80           | 3500K  | 0-10V DIM     | AS SELECTED BY<br>ARCHITECT                                   | UL LISTED FOR DAMP<br>LOCATIONS | COLUMBIA "MPS" SERIES                       |   | 1. THE LENS SHALL BE<br>PROVIDED IN INDIVIDUAL<br>SECTIONS OF OVERALL<br>LENGTH REQUIRED FOR A<br>CONTINUOUS APPEARANCE<br>THE ENTIRE LENGTH OF THE<br>COMPLETE UNIT. ANY<br>INDIVIDUAL SECTION OF<br>LENS SHALL NOT BE<br>SHORTER THAN 4'-0" AND<br>SHALL NOT EXCEED 8'-0" IN<br>LENGTH. |
|                | 0' - 0"          | 1' - 5"          | 0' - 8"          | 3' - 0" | SP  | LED   | 6569 L          | 112 W          |                   | 80           | 3500K  | 0-10V DIM     | AS SELECTED BY<br>ARCHITECT                                   | UL LISTED FOR DAMP<br>LOCATIONS | BARBICAN "DOUBLE DEVO"                      |   | 1. CONTRACTOR TO<br>INCLUDE INSTALLAITON IN<br>BID.<br>2. FIXTURES FURNISHED  |
| eel<br>Ns      | 4' - 0"          | 1' - 0"          | 0' - 4"          | 0' - 0" | RE  | LED   | 3397 L          | 29 W           |                   | 80           | 3500 K | 0-10V DIM     | WHITE POWDER<br>COAT FINISH,<br>PAINTED AFTER<br>FABRICATION. | UL LISTED FOR DAMP<br>LOCATIONS | FINELITE "HPR LED" SERIES                   | 1. MARK<br>LIGHTING                                 | UNDER AN ALLOWANCE.   |
| EEL<br>NS      | 2' - 0"          | 2' - 0"          | 0' - 4"          | 0' - 0" | RE  | LED   | 3397 L          | 29 W           |                   | 80           | 3500K  | 0-10V DIM     | WHITE POWDER<br>COAT FINISH,<br>PAINTED AFTER<br>FABRICATION. | UL LISTED FOR DAMP<br>LOCATIONS | FINELITE "HPR LED" SERIES                   |   | 1. ALL ELECTRICAL  <br>COMPONENTS ACCESSIBLE<br>FROM BELOW.   |
| LY<br>L<br>VIA | 1' - 10"         | 1' - 10"         | 0' - 4"          | 0' - 0" | 0   | LED   | (2) 8822<br>L   | (2) 85<br>W    |                   | 70           | 3000K  | ELECTRONIC    | AS SELECTED BY<br>ARCHITECT                                   | UL LISTED FOR WET<br>LOCATIONS  | KIM "ALT1' TYPE V - WIDE<br>WITH 2SB MOUNT  | 1. BEGA<br>2.<br>MCGRAW-EDISO<br>3. LITHONIA        | 1. 20-FOOT ROUND POLE.  |
| T<br>L<br>VIA  | 1' - 10"         | 1' - 10"         | 0' - 4"          | 0' - 0" | 0   | LED   | 9171 L          | 85 W           |                   | 70           | 3000К  | ELECTRONIC    | AS SELECTED BY<br>ARCHITECT                                   | UL LISTED FOR WET<br>LOCATIONS  | KIM "ALT1" type 4                           | 1. BEGA<br>2.<br>MCGRAW-EDISO<br>3. LITHONIA        | <br>1. 15-FOOT ROUND POLE.<br> <br> <br>  |
| -              | 0' - 11 1/       | 2" 0' - 7"       | 0' - 9"          | 0' - 0" | WL  | LED   | 1964 L          | 18 W           |                   | 70           | 3000K  | ELECTRONIC    | AS SELECTED BY<br>ARCHITECT                                   | UL LISTED FOR WET {             | HUBBELL "TRP1 GeoPaK }<br>TRAPEZOID" SERIES | 1. BEGA<br>2.<br>MCGRAW-EDISO<br>N<br>3. LITHONIA } | 1. TYPE III DISTRIBUTION<br>2. IP68 RATED.  |
| -              | 0' - 11 1/       | 2" 0' - 7"       | 0' - 9"          | 0' - 0" | WL  | LED   | 1922 L          | 18 W           |                   | 70           | 3000К  | ELECTRONIC    | AS SELECTED BY<br>ARCHITECT                                   |                                 | HUBBELL "TRP1 GeoPaK)<br>TRAPEZOID" SERIES  | 1. BEGA   | 1. TYPE IV DISTRIBUTION<br>2. IP68 RATED.   |
|                | 0' - 11<br>3/16" | 0' - 2<br>3/4"   | 0' - 2 9/16"     | 0' - 0" | WL  | LED   | 116 L           | 11 W           |                   | 70           | 3000K  | ELECTRONIC    | AS SELECTED BY<br>ARCHITECT                                   | LOCATIONS                       | DELTA LIGHT "304 32 01 83"                  | 1. BEGA<br>2.<br>MCGRAW-EDISO<br>N                  | 1. TYPE III DISTRIBUTION<br>2. IP68 RATED.  |
| -              | 0' - 11 1/       | 2" 0' - 7"       | 0' - 9"          | 0' - 0" | WL  | LED   | 3062 L          | 32 W           |                   | 70           | 3000K  | ELECTRONIC    | AS SELECTED BY<br>ARCHITECT                                   | UL LISTED FOR WET<br>LOCATIONS  | HUBBELL "TRP1 GeoPaK)<br>TRAPEZOID" SERIES  | 1. BEGA<br>2.<br>MCGRAW-EDISO<br>N<br>3. LITHONIA   | 1. TYPE IV DISTRIBUTION<br>2. IP68 RATED.   |
| GLE<br>AS      | 1' - 1"          | 0' - 2"          | 0' - 9"          | 0' - 0" | CL  | LED   |                 | 2W             | 2W                |              |        |               | WHITE   | UL 924 LISTED                   | DUAL LITE "SE" SERIES                       |   | 1. PROVIDE<br>SELF-DIAGNOSTICS.<br>2. LED TO BE RATED FOR 20<br>YEAR LIFE.  |
| GLE<br>AS      | 1' - 1"          | 0' - 2"          | 0' - 9"          | 0' - 0" | WL  | LED   |                 | 2W             | 2W                |              |        |               | WHITE   | UL 924 LISTED                   | DUAL LITE "SE" SERIES                       |   | 1. PROVIDE<br>SELF-DIAGNOSTICS.<br>2. LED TO BE RATED FOR 20<br>YEAR LIFE.  |



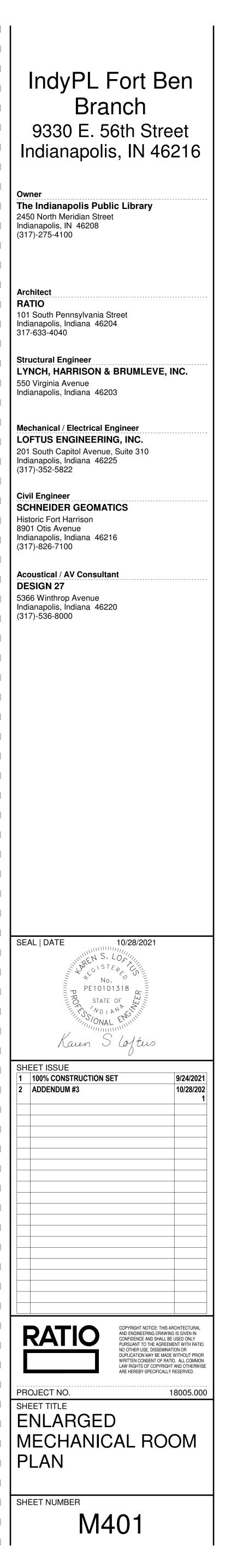


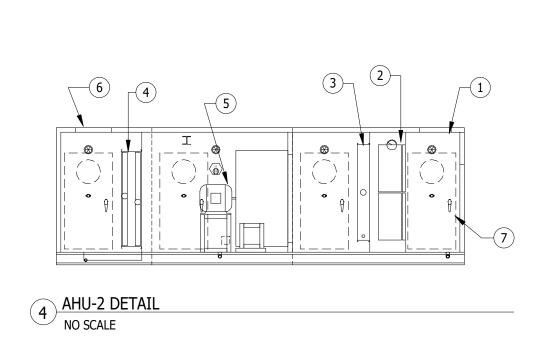




## PLAN NOTES:

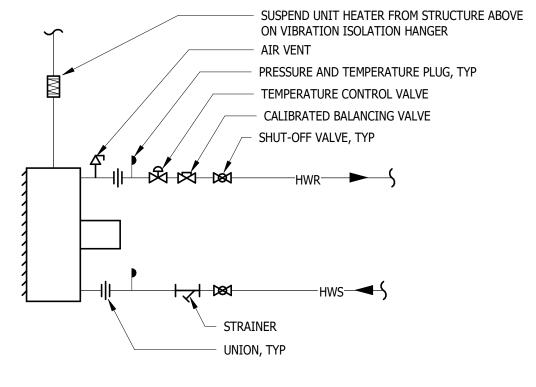
- (1) PROVIDE AIR HANDLING UNIT ON 6" CONCRETE HOUSEKEEPING PAD.
- 2 PROVIDE BOILER ON 4" HOUSEKEEPING PAD.
- 3 PROVIDE HEATING WATER PUMP ON 4" HOUSEKEEPING PAD.
- (4) PROVIDE HEATING WATER EXPANSION TANK ON 4" HOUSEKEEPING PAD.
- (5) PROVIDE AIR COOLED CONDENSING UNIT IN MECHANICAL YARD ON CONCRETE PAD. REFER TO STRUCTURAL DRAWINGS FOR CONCRETE PAD DETAILS.
- (6) REFER TO PLUMBING PLANS FOR FIRE PROTECTION AND DOMESTIC WATER BACKFLOW
- PREVENTERS AND PLUMBING WORK IN THIS AREA.
- (7) SEE SHEET M201 FOR DUCT CONTINUATION.
- (8) SEE SHEET M301 FOR PIPE CONTINUATION.
- (9) 72" W X 96" H LOUVER. PROVIDE 30" DEEP OA DOUBLE WALL PLENUM. PLENUM SHALL BE 2" THICK WITH INSULATION ENCAPSULATED BETWEEN WALLS. SET UNIT ON 3" WIDE X 4" TALL CONCRETE CURB. TOP OF PLENUM SHALL BE AT 7"-0" AFF. BLANK OFF TOP TWO FEET OF LOUVER WITH INSULATED PANEL.
- (10) CONNECT 30X24 OA DUCT FROM AHU-2 AND 42X26 OA DUCT FROM AHU-1 TO OA PLENUM.
- (11) PROVIDE RELIEF FAN SUSPENDED FROM THE STRUCTURE ABOVE.
- 12) PROVIDE DOUBLE WALL SHEET METAL PLENUM WITH 2" INSULATION ENCAPSULATED BETWEEN WALLS. SET UNIT ON 3" WIDE X 4" TALL CONCRETE CURB. FLOOR OF THE PLENUM SHALL BE THE MECHANICAL ROOM FLOOR. THE PLENUM SHALL BE 2'-0" WIDE AND 13'-0" TALL.
- (13) PROVIDE DOUBLE WALL SHEET METAL ACOUSTICAL SUPPLY AIR PLENUM WITH 2" INSULATION ENCAPSULATED BETWEEN WALLS AND PERFORATED INNER WALL. SET THE PLENUM WITHIN THE FLOOR RECESS TO ACCEPT THE DUCTS SHOWN ON M201 BELOW THE ACCESS FLOOR. PLENUM SHALL BE 2'-6" WIDE AND 11"-2" TALL.
- (14) CONNECT SUPPLY AIR DUCTWORK TO SIDE OF DOUBLE WALL SHEET METAL PLENUM WITH DOUBLE WALL DUCTWORK.
- (15) 2" HWS AND 2" HWR TO AIR HANDLING UNIT HEATING COIL
- (16) 1-1/4" HWS AND 1-1/4" HWR TO AIR HANDLING UNIT HEATING COIL.
- (17) refrigerant piping to air handling unit cooling coil. Size per manufacturer's RECOMMENDATIONS.
- (18) PROVIDE VARIABLE FREQUENCY DRIVE. INSTALL ATTACHED TO AIR HANDLING UNIT.
- (19) PROVIDE WALL MOUNTED VARIABLE FREQUENCY DRIVE FOR HEATING WATER PUMP.
- (20) PROVIDE TEMPERATURE CONTROL PANEL IN THIS LOCATION.
- (21) EACH LINE SHOWN REPRESENTS ONE SET OF REFRIGERANT LIQUID AND REFIRGERANT SUCTION LINES FROM THE CONDENSING UNIT TO THE INDOOR COOLING COIL. PROVIDE PIPE SIZING AS RECOMMENDED BY THE UNIT MANUFACTURER.
- (22) BOILER FLUE AND COMBUSTION AIR INTAKE UP THROUGH THE ROOF.
- (23) PIPE ACD TO OVER FLOOR DRAIN.
- (24) EEV MODULE FURNISHED AS PART OF THE AHU CONVERSION KIT BY CONDENSING UNIT
- MANUFACTURER. REFER TO SPECIFICATIONS. (25) COMMUNICATION MODULE FURNISHED AS PART OF THE AHU CONVERSION KIT BY CONDENSING
- UNIT MANUFACTURER. REFER TO SPECIFICATIONS.
- (26) HATCHED RETURN DUCTWORK SHALL BE DOUBLE WALL WITH PERFORATED INNER LINER.
- $(\overline{27})$  close the annular space around the sheet metal acoustical plenum and the CONCRETE CURB WITH A STEEL ANGLE AND SEAL AIR TIGHT. SEAL THE ACOUSTICAL PLENUM TO THE WALL BELOW THE RAISED FLOOR. FINAL INSTALLATION SHALL PREVENT SUPPLY AIR FROM BACK FEEDING THROUGH THE FLOOR RECESS INTO THE MECHANICAL ROOM. REFER TO ARCHITECTURAL DETAILS FOR ADDITIONAL INFORMATION.
- (28) LOCATE CSD-1 BOILER EMERGENCY SHUTOFF SWITCH ON WALL ADJACENT TO DOOR.

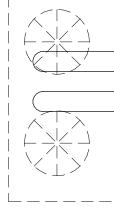


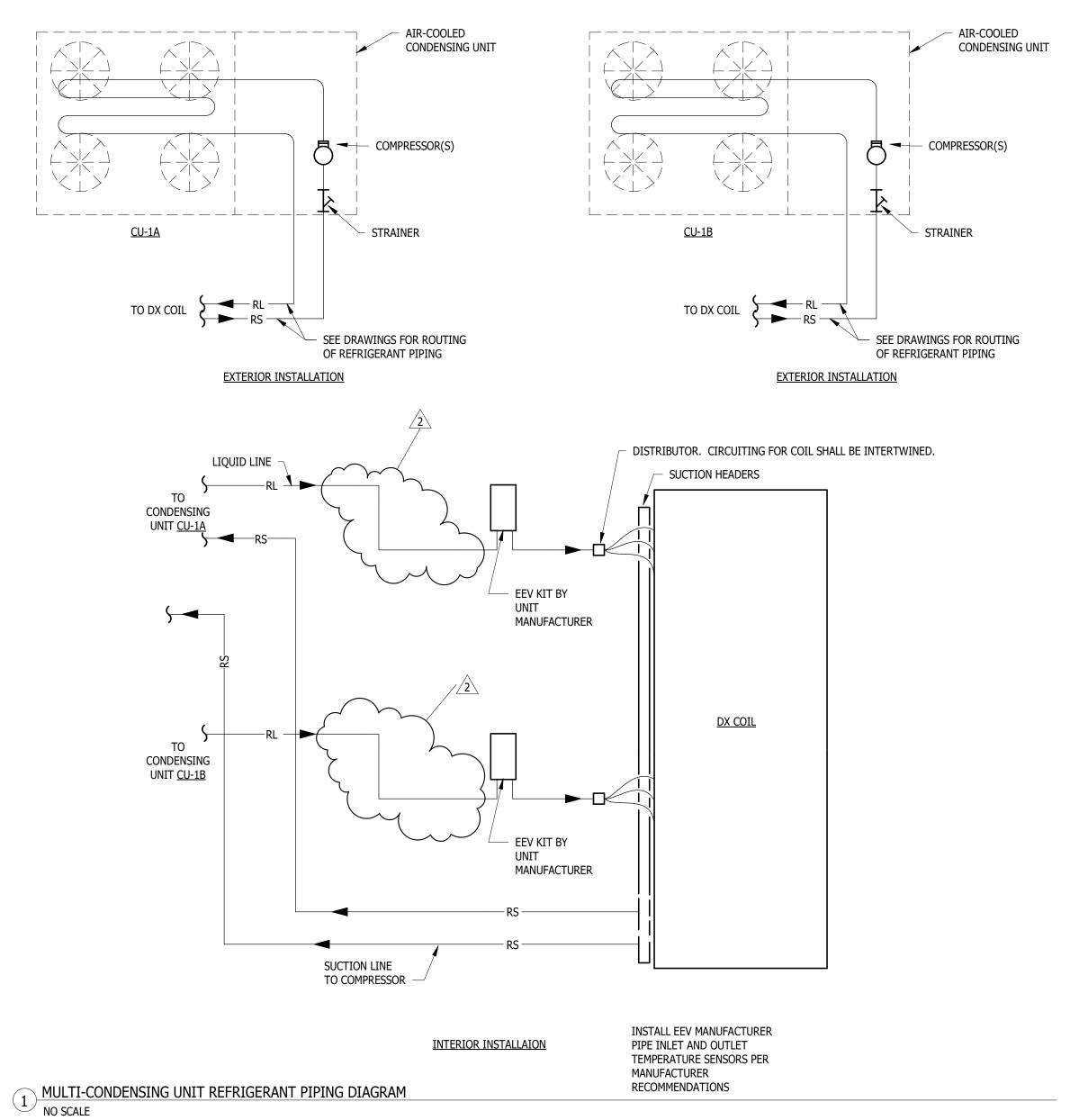


- (7) access door, typ.
- (6) SUPPLY AIR DISCHARGE
- (4) DX COOLING COIL 5 SUPPLY FAN
- (3) HOT WATER HEATING COIL
- 1 MIXED AIR INLET 2 FILTER
- NOTES:

# 2 HOT WATER UNIT HEATER/CABINET HEATER PIPING NO SCALE

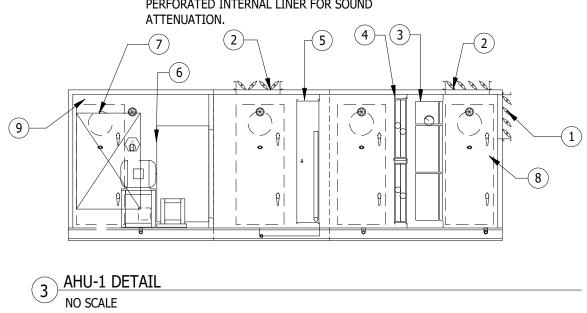


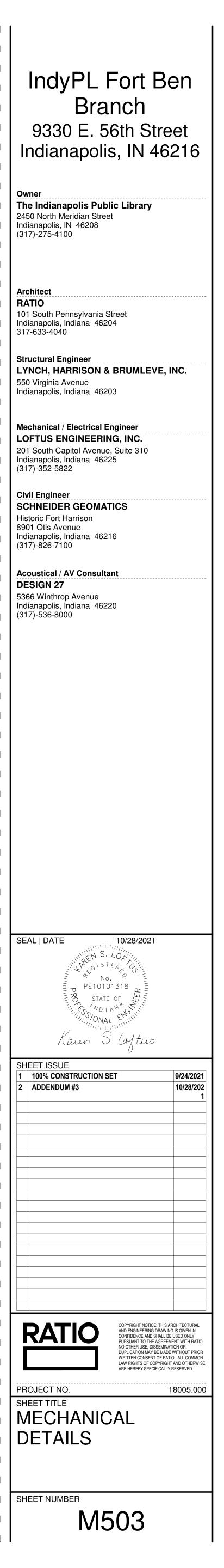


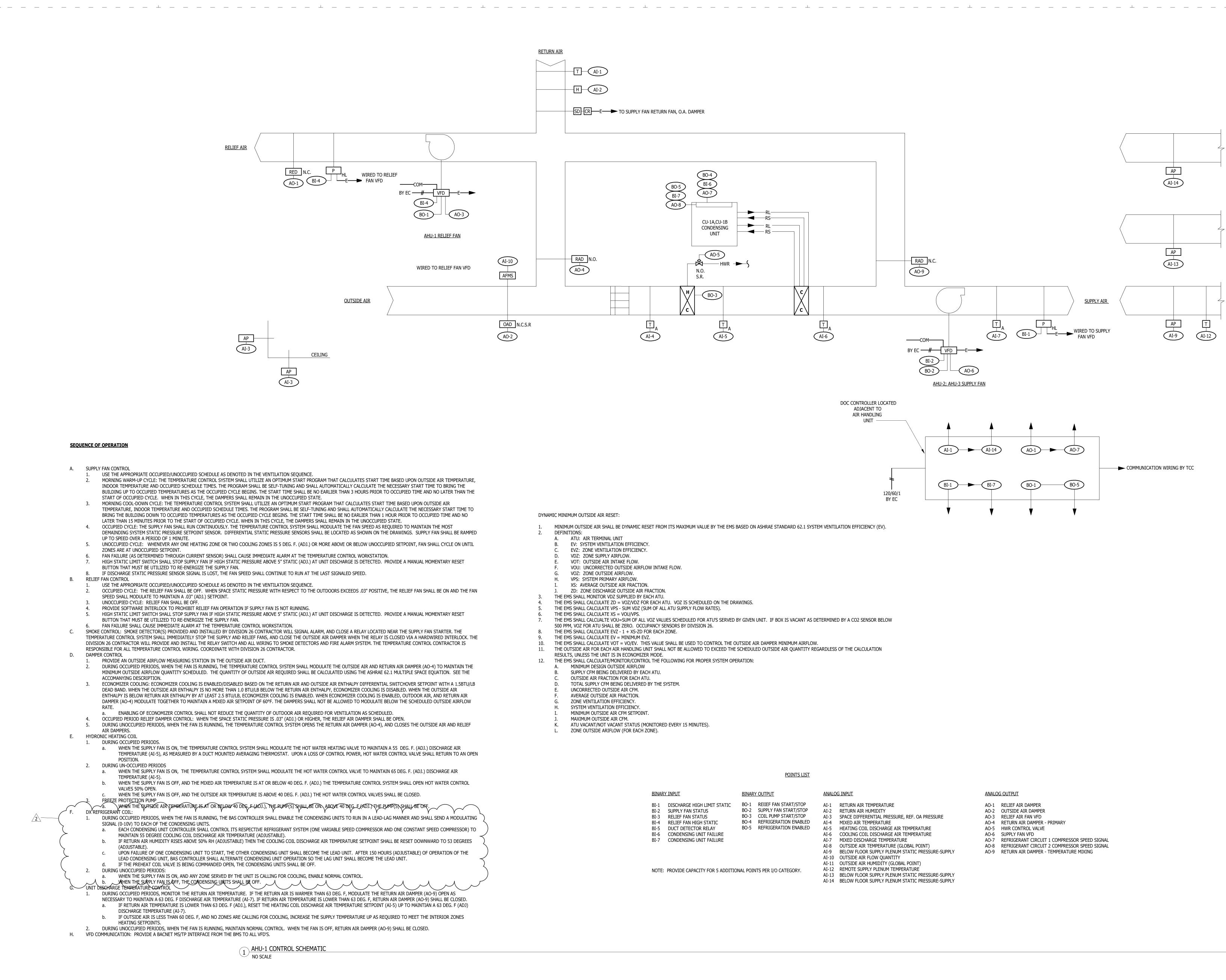


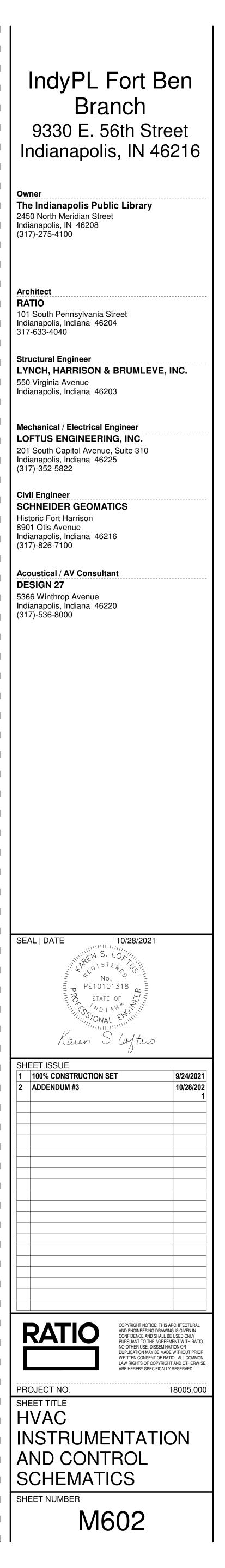


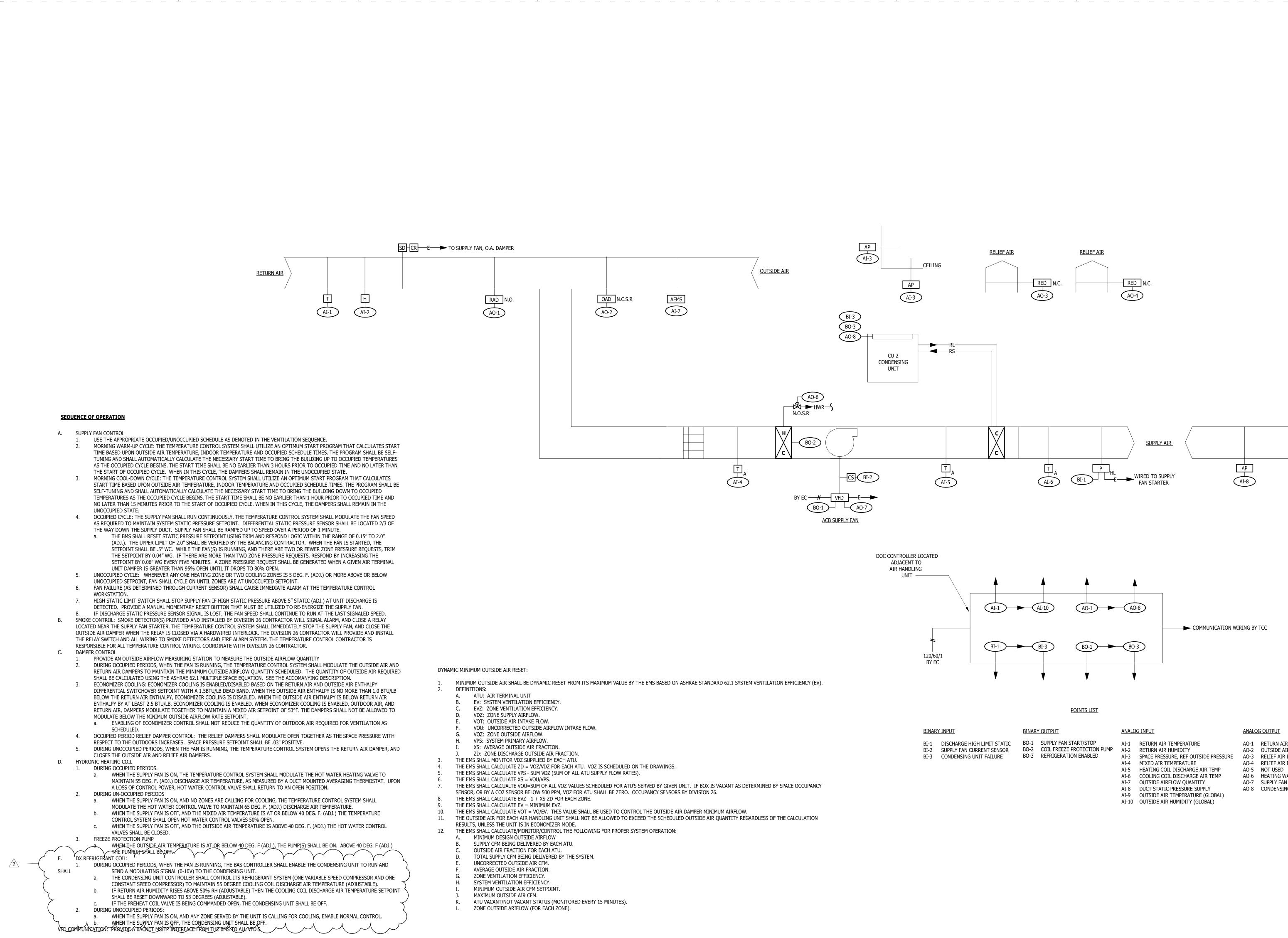
- 1 OUTSIDE AIR DAMPER
- 2 RETURN AIR DAMPER
- (3) FILTER
- (4) HOT WATER HEATING COIL
- 5 DX COOLING COIL
- 6 SUPPLY FAN
- 7 SUPPLY AIR DISCHARGE, SIDE OF THE UNIT. 32" W X 48" HIGH
- 8 ACCESS DOOR, TYP.
- 9 SUPPLY FAN DISCHARGE PLENUM SHALL HAVE PERFORATED INTERNAL LINER FOR SOUND







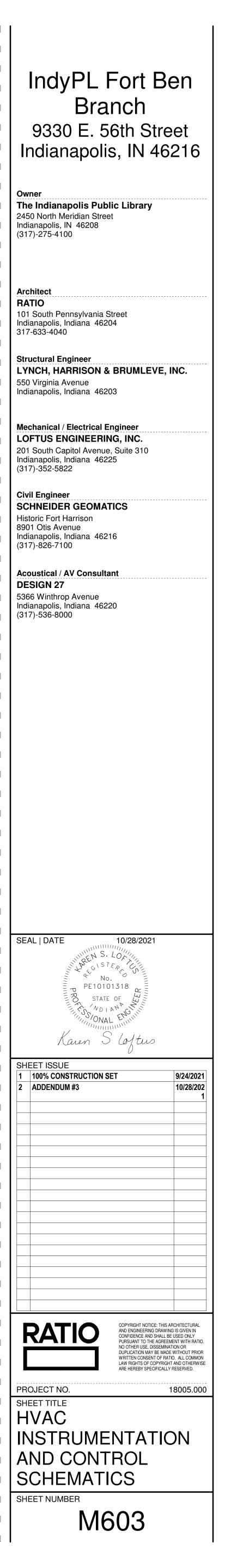




AHU-2 CONTROL SCHEMATIC

NO SCALE

| AO-1 | RETURN AIR DAMPER                            |
|------|--|
| AO-2 | OUTSIDE AIR DAMPER                           |
| AO-3 | RELIEF AIR DAMPER 1                          |
| AO-4 | RELIEF AIR DAMPER 2                          |
| AO-5 | NOT USED                                     |
| AO-6 | HEATING WATER CONTROL VALVE                  |
| AO-7 | SUPPLY FAN SPEED                             |
| AO-8 | CONDENSING UNIT CU-2 COMPRESSOR SPEED SIGNAL |
|      |  |



|       |          |              |             |           |            | _               |                          |                |             | SUPPLY FA                        |
|-------|----------|--------------|-------------|-----------|------------|-----------------|--------------------------|----------------|-------------|----------------------------------|
|       |          |              |             |           |            |                 |                          |                |             |                                  |
| TAG   | LOCATION | AREA SERVED  | TYPE        | TOTAL CFM | OA CFM     |                 | TYPE                     |                | TSP (IN WG) | ESP (IN                          |
| AHU-1 | MECH     | STACK AREA   | VAV         | 13,000    | 3860       | DIRECT DRIVE IN | TEGRAL ATTENUAT          | ION PLENUM FAN | 4.3         | 2.0                              |
| AHU-2 | MECH     | ADMIN        | VAV         | 6,000     | 1600       | DIRECT DRIVE IN | TEGRAL ATTENUAT          | ION PLENUM FAN | 4.5         | 2.25                             |
| -     |          |              |             |           |            |                 |                          | 1              |             |                                  |
|       |          |              |             |           |            | AIR H           | ANDLING UN               | T SCHEDULE     | (CONTINUE   | D)                               |
|       |          |              |             |           |            | AIR H           | ANDLING UNI<br>HEATING C |                | (CONTINUE   | D)                               |
| TAG   | LOCATION | МВН          | EAT         | LAT       | EWT        | AIR HA          |                          |                | (CONTINUE   | <b>D)</b><br># OF COI<br>COIL B/ |
|       |          | MBH<br>346.6 | EAT<br>38.3 | LAT<br>63 | EWT<br>150 |                 | HEATING C                | OIL            |             | # OF COI                         |

NOTES:

1. COOLING COIL AND HEATING COIL FACE VELOCITIES SHALL NOT EXCEED 480 FPM. 2. AHU-1 FILTERS: 2" PRE-FILTER WITH 12" MERV 14 PRIMARY FILTERS. 6@24"X24", 2@24"X12".

3. AHU-2 FILTERS: 2" PRE-FILTER WITH 12" MERV 14 PRIMARY FILTERS. 2@24"X24", 2@24"X12". 4. SEE FAN SOUND POWER SCHEDULE FOR MAX. ALLOWABLE FAN SOUND POWER DATA.

| LINEAR FLOOR DIFFUSERS |          |         |                |            |         |         |               |      |             |           |     |                            |         |
|------------------------|----------|---------|----------------|------------|---------|---------|---------------|------|-------------|-----------|-----|----------------------------|---------|
|                        |          |         |                | MODULATING |         |         |               |      |             | COIL DATA |     |                            |         |
| TAG                    | WIDTH    | LENGTH  | CORE STYLE     | DAMPER     | MAX CFM | MIN CFM | NC AT MAX CFM | TSP  | HEATING MBH | EWT       | GPM | MANUFACTURER AND MODEL NO. | REMARKS |
| LFD-1                  | 0' - 10" | 8' - 0" | LINEAR BAR 15A | YES        | 600     | 180     | <15           | .04" | 5536        | 150       | 2   | PRICE LNT W/LFG GRILLE     | -       |
| LFD-2                  | 0' - 10" | 6' - 0" | LINEAR BAR 15A | YES        | 340     | 100     | <15           | .04" | 4152        | 150       | 2   | PRICE LNT W/LFG GRILLE     | -       |
| LFD-3                  | 0' - 10" | 4' - 0" | LINEAR BAR 15A | YES        | 225     | 68      | <15           | .04" | 2768        | 150       | 2   | PRICE LNT W/LFG GRILLE     | -       |
| LFD-4                  | 0' - 10" | 8' - 0" | LINEAR BAR 15A | NO         | -       | -       | -             | -    | 4555        | 150       | 2   | PRICE LNT W/LFG GRILLE     | 1       |
| LFD-5                  | 0' - 10" | 6' - 0" | LINEAR BAR 15A | NO         | -       | -       | -             | -    | 3174        | 150       | 2   | PRICE LNT W/LFG GRILLE     | 1       |
| LFGH-1                 | 0' - 6"  | 4' - 0" | LINEAR BAR 15A | YES        | 500     | 300     | <15           | .08" | 6370        | 150       | 2   | PRICE LFGH WITHOUT GRILLE  | 2       |
| LFGH-2                 | 0' - 6"  | 2' - 0" | LINEAR BAR 15A | YES        | 200     | 100     | <15           | .08" | 4290        | 150       | 2   | PRICE LFGH WITHOUT GRILLE  | 2       |

<u>Remarks</u>: 1. No supply airflow opening or damper. 2. CLIENT SELECTED STANDARD DEFLECTION FIXED CORE WOODEN GRILLE TO HIDE SUPPORT FLANGE.

|       |           |              |               |                |         | RO            | UND FLOOR DIFF     | USERS    |        |
|-------|-----------|--------------|---------------|----------------|---------|---------------|--------------------|----------|--------|
|       |           |              |               |                |         |               | PD AT MAX CFM (IN. |          |        |
| TAG   | FACE SIZE | FACE PATTERN | BASKET TYPE   | MOUNTING       | MAX CFM | NC AT MAX CFM | WC)                | MATERIAL | FINISH |
| RFD-1 | 0' - 10"  | DISPLACEMENT | VARIABLE FLOW | RING PRESS FIT | 56      | <15           | .03                | ALUMINUM | BLACK  |

|      |                    |                 |             | LINEAR SL | OT DIFFUSEF | R SCHEDULE      |             |              |         |
|------|--------------------|-----------------|-------------|-----------|-------------|-----------------|-------------|--------------|---------|
| TAG  | NUMBER OF<br>SLOTS | SLOT WIDTH (IN) | LENGTH (IN) | MAX. NC   | MAX CFM     | INLET SIZE (IN) | HEIGHT (IN) | MANUFACTURER | MODEL   |
| LD-1 | 2                  | 1               | 48          | 25        | 279         | 8               | 8           | PRICE        | TBD3100 |
|      |                    |                 |             |           |             |                 |             |              |         |

|        |                    |                     | MINI-S            | -SPLIT SYSTEM CONDENSING UNIT SCHEDULE |         |          |       |              |  |  |
|--------|--------------------|---------------------|-------------------|--|---------|----------|-------|--------------|--|--|
|        |                    | OUTDOOR DESIGN DATA |                   |  | ELECTRI | CAL DATA |       |              |  |  |
|        |                    | SUMMER AMBIENT      | MINIMUM           |  |         |          |       |              |  |  |
| TAG    | LOCATION           | TEMPERATURE (°F)    | EFFICIENCY (SEER) | MCA                                    | MOP     | VOLTS    | PHASE | MANUFACTURER |  |  |
| ACCU-1 | MECHANICAL<br>YARD | 95                  | 21.5              | 13                                     | 20      | 208      | 1     | LG           |  |  |

|       |           | MII          | NI-SPLIT SYSTEN | I FAN UNIT SCHEDU                    | LE           |            |          |
|-------|-----------|--------------|-----------------|--------------------------------------|--------------|------------|----------|
| TAG   | LOCATION  | ТҮРЕ         | AIRFLOW (CFM)   | COOLING DATA<br>TOTAL CAPACITY (MBH) | MANUFACTURER | MODEL      | REMARKS  |
| FCU-1 | IT CLOSET | WALL MOUNTED | 706             | 18,000                               | LG           | LSN180HSVS | REFIARRO |

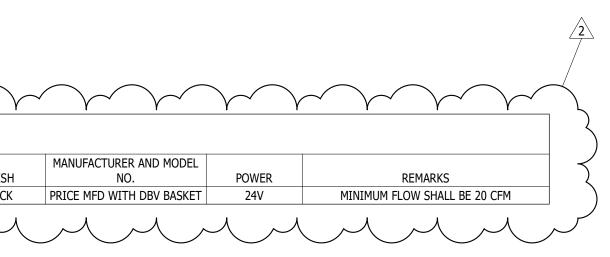
|                  | FAN SOUND POWER SCHEDULE |        |        |        |         |         |         |         |         |  |  |  |  |  |  |
|------------------|--------------------------|--------|--------|--------|---------|---------|---------|---------|---------|--|--|--|--|--|--|
| TAG              | 63 HZ                    | 125 HZ | 250 HZ | 500 HZ | 1000 HZ | 2000 HZ | 4000 HZ | 8000 HZ | REMARKS |  |  |  |  |  |  |
| AHU-1 FAN INLET  | 78                       | 79     | 81     | 81     | 75      | 75      | 76      | 71      |         |  |  |  |  |  |  |
| AHU-1 FAN OUTLET | 90                       | 86     | 86     | 89     | 86      | 82      | 79      | 72      |         |  |  |  |  |  |  |
| AHU-2 FAN INLET  | 75                       | 71     | 78     | 72     | 68      | 71      | 68      | 65      |         |  |  |  |  |  |  |
| AHU-2 FAN OUTLET | 82                       | 84     | 79     | 79     | 80      | 76      | 73      | 66      |         |  |  |  |  |  |  |
| RF-1 INLET       | 79                       | 88     | 87     | 84     | 83      | 79      | 74      | 65      |         |  |  |  |  |  |  |
| RF-1 OUTLET      | 84                       | 87     | 86     | 88     | 86      | 81      | 75      | 65      |         |  |  |  |  |  |  |

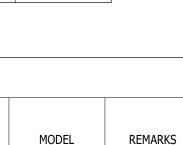
|        |                    |                      |                          |            | LING UNIT S | CHEDULE |   |        |                    |                 |             |            |                 |                    |                        |                         |                       |             |       |       |              |              |                                     |
|--------|--------------------|----------------------|--------------------------|------------|-------------|---------|---|--------|--------------------|-----------------|-------------|------------|-----------------|--------------------|------------------------|-------------------------|-----------------------|-------------|-------|-------|--------------|--------------|-------------------------------------|
|        | SUPPLY FAN DATA    | l l                  |                          |            |             |         |   |        |                    |                 |             |            | COOLING COIL DA | TA                 |                        |                         |                       |             |       |       |              |              |                                     |
|        |                    |                      |                          |            |             |         |   |        | ERING AIR (°F)     | LEAVI           | NG AIR (ºF) | CAP        | ACITY (MBH)     |                    |                        |                         | # OF                  |             |       |       |              |              |                                     |
|        |                    | MAX RPM/FAN<br>CLASS | MOTOR HP BH              |            | RPM PH      | IASE    | VOLTS MAX APD                               | (IN DB | WB                 | DB              | WB          | SENS       | TOTAL           |                    |                        | NUMBER OF<br>COILS HIGH | REFRIGERANT           | CIRCUI      | TINC  |       |              |              |                                     |
| N WG)  | ESP (IN WG)<br>2.0 | 2546/III             | 20 12                    |            | .698        | 1ASE    | VOLTS         WG)           460         .35 | 86.5   | 68.1               | 55              |             | 408.8      |                 | SUCTION TEMP<br>41 | LIQUID TEMP (F)<br>110 |                         | CIRCUITS              | INTERTV     |       |       |              |              |                                     |
| כ<br>ב | 2.0                | 2546/III<br>2546/III | 10 5.                    |            | .578        | 3       | 460 .39                                     | 82     | 66.8               | 55              | 54          | 164.19     | 242.8           | 41 41              | 110                    | 1                       | 36 (2 @ 18)<br>1 @ 18 | THERMAL PAR |       |       |              |              |                                     |
|        |                    |                      |                          |            |             |         |   |        |                    |                 |             |            |                 |                    |                        |                         |                       |             |       |       |              |              |                                     |
| INUE   | ))                 |                      |                          |            |             |         |   |        |                    |                 |             |            |                 |                    |                        |                         |                       |             |       |       |              |              |                                     |
|        | # OF COILS IN      |                      |                          |            |             |         |   |        |                    |                 |             |            |                 |                    | CONDENSING             | G UNIT SCH              | EDULE                 |             |       |       |              |              |                                     |
| PD     | COIL BANK          | ROWS                 | PIPING RUNOUT            | MANUFACTUR |             | REMAR   | (S  |        |                    | MIN TOTAL       |             |            |                 |                    |                        |                         | ELECTRIC              | AL DATA     |       |       |              |              |                                     |
| .1     | 2                  | 2                    | 2" (1-1/4" TO EACH COIL) |            | INDOOR      |         |   | TAG    | LOCATION           | CAPACITY (BTUH) | MIN IEER    | POWER      | REFRIGERANT     | NUMBER OF FANS     | MCA (CCT1)             | MOP (CCT1)              | MCA(CCT2)             | MOP (CCT2)  | VOLTS | PHASE | MANUFACTURER | MODEL        | REMARKS                             |
| .1     |                    | 2                    | 1-1/4"                   | HAAKON     | INDOOR      |         |   | CU-1A  | MECHANICAL<br>YARD | 288,000         | 21.0        | 2 CIRCUITS | R410A           | 4                  | 16.4                   | 25                      | 35.7                  | 50          | 460   | 3     | LG           | ARUM 288DTE5 | VARIABLE SPEE<br>LEAD<br>COMPRESSOR |
|        |                    |                      |                          |            |             |         |   | CU-1B  | MECHANICAL<br>YARD | 288,000         | 21.0        | 2 CIRCUITS | R410A           | 4                  | 16.4                   | 25                      | 35.7                  | 50          | 460   | 3     | LG           | ARUM 288DTE5 | VARIABLE SPEE<br>LEAD<br>COMPRESSOR |
|        |                    |                      |                          |            |             |         |   | CU-2   | MECHANICAL<br>YARD | 233,100         | 22.70       | 1 CIRCUIT  | R410A           | 2                  | 41.4                   | 50                      | 0                     | 0           | 460   | 3     | LG           | ARUM241DTE5  | VARIABLE SPEE<br>LEAD               |

TAG

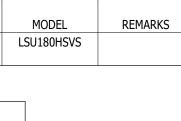
B-1 B-2

<u>/2</u>





REMARKS



|       |                    |               |      |                         |           | HOT WA   | TER CABINE | T HEATER/PROI | PELLER UNI | T HEATER SCI    | HEDULE |              |          |               |   |
|-------|--------------------|---------------|------|-------------------------|-----------|----------|------------|---------------|------------|-----------------|--------|--------------|----------|---------------|---|
|       |                    |               |      |                         | HEATING C | OIL DATA |            |               |            | ELECTRICAL DATA |        |              |          |               |   |
| TAG   | LOCATION           | ТҮРЕ          | CFM  | TOTAL CAPACITY<br>(MBH) | EAT (ºF)  | GPM      | EWT (°F)   | WPD (FT WG)   | HP         | VOLTS           | PHASE  | MANUFACTURER | MODEL    | CONTROL VALVE | REMARKS   |
| CUH-1 | NORTH<br>VESTIBULE | FLUSH CEILING | 540  | 37                      | 60        | 2.4      | 150        | 3.6           | 0.12       | 120             | 1      | TRANE        | FFEB 060 | 3 WAY         | HORIZONTAL RECESSED, BOTTOM STAMPED INLET               |
| CUH-2 | SOUTH<br>VESTIBULE | FLUSH CEILING | 540  | 37                      | 60        | 2.4      | 150        | 3.6           | 0.12       | 120             | 1      | TRANE        | FFEB 060 | 3-WAY (       | HORIZONTAL RECESSED, BOTTOM STAMPED INLET<br>AND OUTLET |
| PUH-1 | MECH               | PROP HEATER   | 1100 | 30                      | 60        | 2.0      | 150        | 0.5           | 0.125      | 120             | 1      | TRANE        | 70S      | 2-WAY         |   |

|       |          |                |        |             |            |               |            |         |           |             | TOR SCHEDU | JLE  |                |           |      |           |        |       |              |            |         |
|-------|----------|----------------|--------|-------------|------------|---------------|------------|---------|-----------|-------------|------------|------|----------------|-----------|------|-----------|--------|-------|--------------|------------|---------|
|       |          |                |        |             |            | WHEEL         |            | ACCOUST | TCAL DATA |             |            |      | FAN EFFICIENCY |           |      | MOTOF     | R DATA |       |              |            |         |
| TAG   | LOCATION | SERVICE        | CFM    | TSP (IN WG) | FAN TYPE   | DIAMETER (IN) | DRIVE TYPE | SONES   | INLET dBA | ACCESSORIES | BHP        | RPM  | GRADE          | CONTROL   | HP   | MOTOR RPM | VOLTS  | PHASE | MANUFACTURER | MODEL      | REMARKS |
| RF-1  | MECH     | AHU-1 RELIEF   | 12,500 | 1.5         | MIXED FLOW | 27            | DIRECT     | 24      | 76        | 2           | 5.08       | 1770 | 71             | VFD - BMS | 7.5  | 1170      | 460    | 3     | GREENHECK    | QEID-27    |         |
| TEF-1 | ROOF     | TOILET EXHAUST | 780    | 0.625       | DOME       | 10            | DIRECT     | 14.1    | 64        | 1,2,3,4,5   | .26        | 2113 | -              | BMS       | 0.5  | 2500      | 120    | 1     | GREENHECK    | G-103HP-VG |         |
| TEF-2 | ROOF     | TOILET EXHAUST | 450    | 0.625       | DOME       | 10            | DIRECT     | 8.1     | 55        | 1,2,3,4,5   | .11        | 1552 | -              | BMS       | 0.33 | 1725      | 120    | 1     | GREENHECK    | G-123-VG   |         |

REMARKS: 1. COUNTERBALANCED BACKDRAFT DAMPER.

2. UNIT MOUNTED DISCONNECT. 3. OUTDOOR CONSTRUCTION.

4. VARI-GREEN EC MOTOR. 5. INTEGRAL SPRING LOADED BACKDRAFT DAMPER.

|        |                 |         |             |         |                 |          | AI       | R TERMINAL | UNIT SCHE | DULE              |     |                    |                     |              |       |                     |
|--------|-----------------|---------|-------------|---------|-----------------|----------|----------|------------|-----------|-------------------|-----|--------------------|---------------------|--------------|-------|---------------------|
|        |                 |         |             |         |                 |          |          |            | HYDR      | ONIC HEATING DATA |     |                    |                     |              |       |                     |
| TAG    | INLET SIZE (IN) | MAX CFM | HEATING CFM | MIN CFM | MAX APD (IN WG) | EAT (ºF) | LAT (°F) | EWT ( °F)  | LWT (°F)  | CAPACITY (MBH)    | GPM | MAX WPD (FT<br>WG) | RUNOUT SIZE<br>(IN) | MANUFACTURER | MODEL | REMARKS             |
| VAV-01 | 8               | 510     | 255         | 170     | 0.45            | 55       | 75       | 150        | 120       | 10.5              | 0.7 | 3                  | 0.75                | PRICE        | SDV   | -                   |
| VAV-02 | 6               | 325     | 200         | 110     | 0.45            | 55       | 75       | 150        | 120       | 6.5               | 0.5 | 3                  | 0.75                | PRICE        | SDV   | -                   |
| VAV-03 | 6               | 300     | 150         | 100     | 0.45            | 55       | 75       | 150        | 120       | 4.9               | 0.5 | 3                  | 0.75                | PRICE        | SDV   | -                   |
| VAV-04 | 12              | 1575    | 1000        | 525     | 0.45            | 55       | 75       | 150        | 120       | 37.8              | 2.5 | 3                  | 0.75                | PRICE        | SDV   | 3-WAY CONTROL VALVE |
| VAV-05 | 6               | 200     | 150         | 70      | 0.45            | 55       | 75       | 150        | 120       | 6.6               | 0.5 | 3                  | 0.75                | PRICE        | SDV   | -                   |
| VAV-06 | 6               | 305     | 155         | 105     | 0.45            | 55       | 75       | 150        | 120       | 6.3               | 0.5 | 3                  | 0.75                | PRICE        | SDV   | -                   |
| VAV-07 | 6               | 200     | 100         | 70      | 0.45            | 55       | 75       | 150        | 120       | 3.3               | 0.5 | 3                  | 0.75                | PRICE        | SDV   | -                   |
| VAV-08 | 6               | 300     | 150         | 100     | 0.45            | 55       | 75       | 150        | 120       | 4.5               | 0.5 | 3                  | 0.75                | PRICE        | SDV   | -                   |
| VAV-09 | 6               | 340     | 170         | 115     | 0.45            | 55       | 75       | 150        | 120       | 8.9               | 0.6 | 3                  | 0.75                | PRICE        | SDV   | -                   |
| VAV-10 | 6               | 310     | 150         | 105     | 0.45            | 55       | 75       | 150        | 120       | 5                 | 0.5 | 3                  | 0.75                | PRICE        | SDV   | -                   |
| VAV-11 | 8               | 425     | 215         | 145     | 0.45            | 55       | 75       | 150        | 120       | 9.8               | 0.7 | 3                  | 0.75                | PRICE        | SDV   | -                   |
| VAV-12 | 6               | 270     | 160         | 90      | 0.45            | 55       | 75       | 150        | 120       | 6.4               | 0.5 | 3                  | 0.75                | PRICE        | SDV   | -                   |
| VAV-13 | 6               | 150     | 75          | 50      | 0.45            | 55       | 75       | 150        | 120       | 3.1               | 0.5 | 3                  | 0.75                | PRICE        | SDV   | -                   |
| VAV-14 | 8               | 500     | 150         | 170     | 0.45            | 55       | 75       | 150        | 120       | 5.7               | 0.5 | 3                  | 0.75                | PRICE        | SDV   | -                   |
| VAV-15 | 6               | 220     | 110         | 75      | 0.45            | 55       | 75       | 150        | 120       | 3.9               | 0.5 | 3                  | 0.75                | PRICE        | SDV   | -                   |

|       | PUMP SCHEDULE |                       |                      |     |           |                |           |      |                 |       |              |             |         |  |  |
|-------|---------------|-----------------------|----------------------|-----|-----------|----------------|-----------|------|-----------------|-------|--------------|-------------|---------|--|--|
|       |               |                       |                      |     |           |                |           |      | ELECTRICAL DATA |       |              |             |         |  |  |
| TAG   | LOCATION      | TYPE                  | TYPE SERVICE         | GPM | FEET HEAD | EFFICIENCY (%) | MOTOR RPM | HP   | VOLTS           | PHASE | MANUFACTURER | MODEL       | REMARKS |  |  |
| CP-1  | MECH          | IN-LINE<br>CIRCULATOR | FREEZE<br>PROTECTION | 2   | 12        | -              | 2950      | 0.17 | 115             | 1     | B&G          | NBF-33      |         |  |  |
| CP-2  | MECH          | IN-LINE<br>CIRCULATOR | FREEZE<br>PROTECTION | 2   | 12        | -              | 2950      | 0.17 | 115             | 1     | B&G          | NBF-33      |         |  |  |
| HWP-1 | MECH          | END SUCTION           | HEATING WATER        | 75  | 65        | 56.3           | 1750      | 3    | 460             | 3     | B&G          | 1532 1.25BC |         |  |  |
| HWP-2 | MECH          | END SUCTION           | HEATING WATER        | 75  | 65        | 56.3           | 1750      | 3    | 460             | 3     | B&G          | 1532 1.25BC |         |  |  |

TAG ET-1

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| MECH         CONDENSING         1000         961         50         4"-7"         5.2         115         1         CLEAVER BROOKS         CFC 1000 |          |            |             |              | GAS FIRE       | ED BOILER SO | HEDULE |                 |       |                |          |         |
|---|----------|------------|-------------|--------------|----------------|--------------|--------|-----------------|-------|----------------|----------|---------|
| MECH         CONDENSING         1000         961         50         4"-7"         5.2         115         1         CLEAVER BROOKS         CFC 1000 |          |            | GROSS INPUT | GROSS OUTPUT | RELIEF VALVE   | BURNER INLET |        | ELECTRICAL DATA |       |                |          |         |
|   | LOCATION | TYPE       | (MBH)       | (MBH)        | SETTING (PSIG) | PRESSURE     | AMPS   | VOLTS           | PHASE | MANUFACTURER   | MODEL    | REMARKS |
|   | MECH     | CONDENSING | 1000        | 961          | 50             | 4"-7"        | 5.2    | 115             | 1     | CLEAVER BROOKS | CFC 1000 |         |
| MECH CONDENSING 1000 961 50 4"-7" 5.2 115 1 CLEAVER BROOKS CFC 1000   | MECH     | CONDENSING | 1000        | 961          | 50             | 4"-7"        | 5.2    | 115             | 1     | CLEAVER BROOKS | CFC 1000 |         |

| DIMENSIONS   |              |       |         |
|--|--------------|-------|---------|
| THROAT LENGTH THROAT WIDTH THROAT  |              |       |         |
|  | MANUFACTURER | MODEL | REMARKS |
| RH-1GRAVITY RELIEF<br>HOOD3,000.0194842286AHU-2ALUMINUM                                    | GREENHECK    | FGI   |         |
| RH-2GRAVITY RELIEF<br>HOOD3,000.0194842286AHU-2ALUMINUM                                    | GREENHECK    | FGI   |         |
| GRILLE/REGISTER AND DIFFUSER SCHEDULE  |              |       |         |
| SQUARE NECK ROUND NECK MAX NC (AT MAX  |              |       |         |
| TAG     FACE SIZE (IN)     SIZE (IN)     MAX CFM     CFM)     MATERIAL     FINISH     TYPE | MANUFACTURER | MODEL | REMARKS |

| G-1      | 24x12 | 22x10   | -     | 720                       | 25           | ALUMINUM    | WHITE   | EGGCRATE                              | PRICE  | 80      | -                   |
|----------|-------|---|-------|---------------------------|--------------|-------------|---------|---------------------------------------|--------|---------|---------------------|
| G-1      | 24x12 | 22x10   | -     | 720                       | 25           | ALUMINUM    | WHITE   | EGGCRATE                              | PRICE  | 80      | · · ·               |
| G-2 ~    | 24+24 | 22x22   |       | 1083                      | 25           | ALUMINUM    | WHITE   | EGGORATE                              | PRICE  | 80      | $\sqrt{1-\sqrt{2}}$ |
| (G-3)    | λ -   |   | Γ, Γ  |                           | - 1          | , -         | ·       | , , , , , , , , , , , , , , , , , , , |        | -       | 1                   |
| iD-1     | 24x24 |   | ~6"\Q | 196                       | <u></u>      | STEEL       | ( WHATE | ∠ PLAQUE ∕                            |        | SPD     |                     |
| D-2      | 24x24 | -   | 8" Ø  | 314                       | 25           | STEEL       | WHITE   | PLAQUE                                | PRICE  | SPD SPD |                     |
| D-3      | 24x24 | -   | 10" Ø | 436                       | 25           | STEEL       | WHITE   | PLAQUE                                | PRICE  | SPD     | -                   |
| G-1      | 12x6  |   |       | 250                       | 18           | STEEL       | WHITE   | SIDEWALL                              | PRICE  | 510     | -                   |
| $\frown$ |       | $\gamma \gamma $ |       | $\checkmark$ $\checkmark$ | $ \searrow $ | $\searrow$  | $\sim$  | LOUVERED                              | $\sim$ |         |                     |
| G-2      | -     | -   | -     | - '                       | · -          | Υ <u></u> Υ | _ Y     | Y _ Y                                 | _Y     | Y _ Y   | Υ <sub>1</sub>      |
| G-3      | -     | -   | -     | -                         | -            | -           | -       | -                                     | -      | -       | 1                   |

REMARKS: 1. CLIENT SELECTED GRILLE. REFERENCE A-SERIES DRAWINGS FOR MORE INFORMATION.

PRESSUIRIZED EXPANSION TANK AND AIR CONTROL SCHEDULE

|     |               |         | TANK VOLUME | ACCEPTANCE   | PRECHARGE       | AIR  | SEPARATOR / PURGE | R     |              |         |         |
|-----|---------------|---------|-------------|--------------|-----------------|------|-------------------|-------|--------------|---------|---------|
| AG  | SERVICE       | TYPE    | (GAL)       | VOLUME (GAL) | PRESSURE (PSIG) | TAG  | MANUFACTURER      | MODEL | MANUFACTURER | MODEL   | REMARKS |
| Г-1 | HEATING WATER | BLADDER | 158         | 158          | 12              | AS-1 | B&G               | 4"    | WESSELS      | NLA-600 |         |

